

Central Instrumentation Facility (CIF) policy

Academic year 2019-20

Central Instrumentation Facility of LPU houses a wide range of high-end instruments for pushing the boundaries of research in science and technology to higher level. These instruments and facilities help the faculties, research scholars and students to carry out globally competitive research in basic, applied and medical sciences. The modern analytical instruments present in this facility offer a wide range of analytical methods/techniques for chemical/material testing and analysis. This consequently, will help researchers to publish their research findings in peer reviewed high impact factor journals. Ultimately, the concerted efforts of the centre will contribute to the upliftment of the society at large. The Centre also hopes for expansion of the facilities each year making it a core facility in the country. By realizing *CIF* we expect a prominent hub for pioneering and collaborative analytical research in our country. *CIF* runs under the purview of Division of Research and Development of the university and is expected to self-sustain by revenue generation for the upkeep and maintenance of the instruments. Hence, a nominal charge on sample testing and analysis will be collected from the users. The services of this facility are not limited only to the stakeholders of LPU but are extended to academic & research institutions, universities, industries and NGOs.

Objectives:

- To provide modern analytical instrumentation facilities to accelerate fundamental and advanced research.
- To analyse samples received from researchers of LPU and other organizations.
- To provide reliable analytical results that can be used for patenting as well as publishing in high impact factor journals.
- To provide guidance and training to personnel for acquisition of data, operation and maintenance of sophisticated instruments.
- To create centres of excellence with partnering companies of international repute.
- To sign memorandum of understanding (MoU) for collaborative analytical research.
- To organize hands on workshops, seminars, conferences and symposia along with industrial and government partners in specific instrumentation.
- To award certification programmes in advanced instrumentation techniques.

- To offer expert guidance in data interpretation (challenging data), funding options and instrumentation in consonance with industrial experts.
- To create networking between research organizations on specific instrumentation for synergetic growth.

Within the framework of CIF, several centres are established and memorandums of understanding (MoU) with reputed companies for bilateral research have been deployed. For example we have “JEOL-LPU Centre of Excellence for Advanced Microscopic Studies, Bruker-LPU Centre of Excellence for Microstructural Studies, Perkin Elmer- LPU Centre of Excellence in Material Characterization, Shimadzu-LPU Centre for Advanced Chromatography and Mass Spectrometry, and Centre for Chemical Analysis and Testing”.

Sample Analysis

A list of instruments available at CIF and their scope is provided in **Annexure-I**. The details of analysis charges are listed in **Annexure-II**. Sample requisition forms for individual instruments are given in **Annexure-III**.

1. Samples will be analysed after the requisition is received by CIF from the user. If emergency analysis is required, special approval by recommendation of HD-DRD is required and Head, CIF will make all necessary arrangements on priority basis.
2. Priority will be given to faculty members running external funding projects.
3. Unless otherwise instructed, all samples will be held for a maximum period of 15 days under room temperature (or refrigerated at 0-10°C if specified).
4. Users will be contacted by UMS/email / phone once the samples are analysed.
5. The users are also given chance to use the software that comes along with the instrument for data processing and interpretation. For this a separate data analysis lab is established where the computers are preinstalled with all the software of various high-end instrument. A maximum of 1-hour time slot will be given per user for a log request on first come first basis by lodging a log request. If due to unforeseen situations if a user misses the session he/she is advised to rebook the slot once again and wait for their turn.
6. CIF will be obliged to calibrate the instruments periodically in collaboration with the companies using their standards.

Reports

1. Raw data in the form of analysis reports will be sent by email or the user may pick them up at the reception of CIF.
2. All the records will be stored for a maximum of one year following analysis.
3. Specifications of instrumental conditions utilized in the analysis as well as calibration curves, calculated concentrations, matching library data may be provided.
4. CIF will ensure to safeguard the data privacy and strictly preserve the IPR of the users.

Note: the format of the report is given in **Annexure-IV**

Timings:

The facility is expected to run on all working days (from 9 am to 8 pm). However, users can deposit their samples from Monday to Friday (9am to 1pm) at the office of CIF. The facility will abide by the holidays of the University and remain closed on these days. Saturdays are reserved for maintenance of systems, meetings and events (workshops etc.). Users can collect their reports from 3-5pm (Monday to Friday) at the office of CIF.

Biosafety:

Standard biosafety guidelines of governing bodies will be adopted for the running of the facility.

Waste Disposal:

Standard waste disposal guidelines of the governing bodies will be categorically deployed for environmental safety.

Terms and Conditions

1. All publications of research work, where in the analytical services of the CIF, LPU have been made use of, shall be duly acknowledged (e.g., The services extended by the Central Instrumentation Facility (CIF), Lovely Professional University in the XRD analysis are duly acknowledged).
2. The content of our report should not be used for any advertisement, evidence, litigation or/and quote as certificate to a third party.
3. Separate samples should be submitted for different analysis.

4. Unstable (Easily reactive in atmosphere) materials are not accepted for analysis (unless specially requested. CIF will not take the responsibility of the results obtained by the analysis as the results are dependent on the stability of the material).
5. Explosive materials are not accepted for analysis.
6. Sample vials have to be sealed properly and labelled for reference purpose.
7. The users are also expected to label the standards wherever need to be analysed as one of the samples and give numbering accordingly.
8. Slots will be allotted to users on first come first serve basis. However, for multiple slot requests by any user, the slots will be allotted based on the discretion of CIF considering the availability of the instruments.

List of instruments available at CIF

S. No.	Name of the Instrument	Make & Model	Scope
1.	Powder XRD	Bruker D8 Advance	<p>Bruker D8 Advance is a multi-purpose research X-ray diffractometer. It is unique in its ability to analyze sample (powders and thin films) on a single instrument without compromising the analyte. It is configured with an ultrafast super speed detector SSD-XE. D8 ADVANCE XRD system is approved by Atomic Energy Regulatory Board, Mumbai. This technique is used widely in Material Science for crystalline size, stress and crystalline phase identification.</p> <p>It can also be used in crystallographic study of biological, chemical and soil samples by measuring spacing between lattice planes and epitaxial growth of crystallites. XRD is mostly used for synthesized new unknown crystalline materials (Organic/Inorganic/ Mineral) especially in electronic, material and pharma industry dealing with nanomaterials. The instrument is also equipped with ICDD PDF2, PDF4+, PDF4/Organics, PDF4/Minerals data base.</p>
2.	Gas Chromatography with MS/MS and FID	Shimadzu TQ8040	<p>GC-MS/MS is used</p> <ul style="list-style-type: none">• In research and development, production, impurity profiling and quality control departments of pharmaceutical, chemical, agricultural, and biotechnological industries.

			<ul style="list-style-type: none"> • In forensic toxicology to identify poisons and steroids in biological specimens. • In detecting pollutants, metabolites in serum and fatty acid profiling in microbes. • For the analysis of inorganic gases, aromatic solvents, detection of impurities and allergens in cosmetics.
3.	FE-SEM coupled with EDS detector; Au Sputter Coater	<p>JEOL JSM-7610F Plus</p> <p>EDS: OXFORD EDS LN2 free</p> <p>Au Coater: JEOL Smart Coater</p>	<p>JEOL FESEM can be used to visualize very tiny topographic details of variety of samples. The high power optics can provide high throughput and high performance. It is suitable for high spatial resolution analysis. Further, 'Gentle Beam mode' can reduce the incident electron penetration to the specimen, so that even sensitive materials can be tested.</p> <p>Liquid nitrogen free cooling system for EDS is robust for excellent elemental analysis at low accelerating voltage.</p> <p>A few nanometer thick Gold-coating can be done on samples of low electrical conductivity to get high resolution images.</p>
4.	Electrochemical workstation	Metrohm: Multi-Channel Autolab	<p>Multi-channel Autolab is a multi-channel potentiostat/galvanostat which is useful in electrochemical measurements.</p> <p>The in-house available features provide</p>

			(e.g., cyclic voltammetry, linear sweep voltammetry, chronoamperometry, impedance spectroscopy, charge discharge characteristics) powerful techniques for the understanding reaction kinetics, sensing materials, corrosion, energy conversion and storage studies.
5.	Fluorescence spectrometer	Perkin Elmer LS6500	Fluorescence spectrometry is a fast, simple and inexpensive method to determine the concentration of an analyte in solution based on its fluorescent properties. This instrument can be used to measure kinetic assays to understand complex biological processes and mechanics of enzyme inhibition. The technique is also used for the analysis of dyes, LEDs, tracers, solar cells, and organic electroluminescent materials.
6.	Refrigerated Centrifuge	Eppendorf Refrigerated Centrifuge 5804R	A low temperature centrifuge is used to determine sedimentation velocity, shape and mass of macromolecules, separation of phases, isolate viruses, organelles, membranes and biomolecules such as DNA, RNA and lipoproteins. This can also be used for phase separation of nanomaterials.
7.	Thermogravimetric analyzer	Perkin Elmer TGA 4000	Thermogravimetric analyzers measure changes in mass as a function of increasing temperature or time with constant heating rate. TGA technique can be used to obtain <ul style="list-style-type: none"> • Compositional analysis, • Decomposition temperatures • Engine oil volatility • Flammability studies

			<ul style="list-style-type: none"> • Measurement of volatiles • Oxidative and thermal stabilities • Catalyst and coking studies
8.	Differential scanning calorimeter	Perkin Elmer DSC 6000	<p>Differential Scanning Calorimeter (DSC) measures temperatures and heat flows associated with thermal transitions in a material. DSC technique can be used to obtain.</p> <ul style="list-style-type: none"> • Glass transition temperature • Melting points • Crystallization time and temperatures • Heats of melting and crystallization • Percentage of crystallinity • Oxidative stabilities • Heat capacity • Purities • Thermal stabilities • Polymorphism
9.	Density meter	Axis Density Meter with analytical balance ALN-220	A density meter is a device that measures the density of the analytes.

10.	Viscometer	LABMAN model of LMDV-200 with small sample adaptor, low viscosity adaptor and software.	A viscometer is an instrument used to measure the viscosity of a fluid.
11.	Probe Sonicator	LABMAN MODEL PRO-500 with probe assembly of 9.5mm, 6 mm and 3mm	Sonicator is an electronic instrument that carries out sonication i.e., the application of sound energy to the sample of interest. The instrument converts electric energy to ultrasonic sound energy.
12.	Particle size and Zeta potential analyzer	Malvern Zetasizer Nano ZS90	The particle size analyzer is the ideal tool for sub-micron analysis of size and zeta potential of dispersed particles of mineral, chemical, ceramic, polymer, pharmaceutical and agricultural sciences.
13.	HPLC with RI and PDA detectors	Shimadzu Prominence I LC2030 Plus	<p>The technique is used in the analysis of pharmaceutical, toxicological, environmental, and biological samples.</p> <ul style="list-style-type: none"> • Qualitative analysis - Separation of thermally unstable chemical and biological compounds, e.g., drugs, organic chemicals, herbal medicines and plant extracts. • Quantitative analysis - To determine the concentration of a compound in a sample by measuring the height and area of the peak. • Trace analysis – Analysis of compounds present in very low concentrations in a sample.

			RI detector (universal detector) -Any component that differs in refractive index from an elute can be detected despite its low sensitivity.
14.	FTIR with Diamond ATR	Perkin-Elmer Spectrum 2 with ATR & Pellet accessories	Highly Sophisticated infrared spectroscopy system with Diamond ATR helps in nondestructive sample analysis.

ANNEXURE-II**Analysis charges (in INR) for using instruments in CIF**

S. No.	Instrument Name	Internal (per sample/per hour)	Academia/R&D (per sample/per hour)	Industry (per sample/per hour)
1	Powder XRD (Bruker D8 Advance)	150 per sample 300 per hour	350 per sample 700 per hour	1000 per sample 1200 per hour
2	GC*-MS/MS (Shimadzu TQ8040)	750 (Qualitative) /1500 (Quantitative)/3000 (per hour)	1500 (Qualitative)/4000(Quantit ative)/10000 (per hour)	2000 (Qualitative)/5000(Quantit ative)/15000 (per hour)
3	GC with FID*	500 (Qualitative)/1000 (Quantitative)/2000 (per hour)	1000 (Qualitative)/2000(Quantit ative)/5000 (per hour)	1500 (Qualitative)/3000(Quantit ative)/7000 (per hour)
4	MS/MS	500	800	1200
5	FE-SEM [#] coupled with EDS detector, Au Sputter Coater (FE-SEM: JEOL JSM-7610F Plus EDS: OXFORD EDS LN2 free, Au Coater: JEOL Smart Coater)	500 (FESEM), 750 (FESEM+EDAX+ mapping)	1000(FESEM), 1500 (FESEM+EDAX), 1800 (FESEM+EDAX+ mapping)	2000(FESEM), 3000 (FESEM+EDAX), 4000 (FESEM+EDAX+ mapping)
6	Electrochemical work station** (Metrohm: Multi-Channel Autolab AUT.MAC.204)	100 /200 (per hour)	300/800 (per hour)	500/1200 (per hour)

7	Fluorescence Spectrometer (Perkin Elmer LS6500)	50	300	500
8	Centrifuge (Eppendorf Refrigerated Centrifuge 5804R)	100 (per hour)	300 (per hour)	500 (per hour)
9	Thermogravimetric analyzer (Perkin Elmer TGA 4000)	150 (Extra INR100/100 °C rise in temperature after 600 °C up to 1000 °C, @ 10 °C/min)	500 (Extra INR 150/100 °C rise in temperature after 600 °C up to 1000 °C, @ 10 °C/min)	1000 (Extra INR 300/100 °C rise in temperature after 600 °C up to 1000°C, @ 10°C/min)
10	Differential scanning calorimeter ^{##} (Perkin Elmer DSC 6000)	200 per hour (RT to 450°C, @ 10 °C/min)	600 per hour (RT to 450°C, @ 10 °C/min)	1200 per hour (RT to 450°C, @ 10 °C/min)
		300 per hour (RT to -70 °C, @ -10 °C/min)	700 per hour (RT to -70 °C, @ -10 °C/min)	1500 per hour (RT to -70°C, @ -10 °C/min)
11	Density meter (Axis Density Meter with analytical balance ALN-220)	50	200	500
12	Viscometer (LABMAN model of LMDV-200 with small sample adaptor, low viscosity adaptor and software.)	50	250	500

13	Particle size and Zeta potential analyzer (Malvern Zetasizer Nano ZS90)	100	500	1200
14	FTIR with Diamond ATR & Pellet accessories (Perkin Elmer Spectrum 2)	50	200	700
15	HPLC* with RI and PDA detector (Shimadzu Prominence I LC2030 Plus)	500 (Qualitative)/1000 (Quantitative)/3000 (per hour)	1000 (Qualitative)/2000(Quantitative)/5000 (per hour)	2000 (Qualitative)/4000(Quantitative)/10000 (per hour)

Note:

- 1 **The user should provide standard/reference (compound/solution) for the analysis.**
- 2 **If instrument run time is more than 30 minutes for single sample analysis then hourly basis charges will be applicable.**
- 3 **For external users, @ 18.00 % GST or above (as per the prevailing norms) will be applicable in the above rate list.**
- 4 **Please add courier and CD charges of INR 100 (conditions applied).**
- 5 *** Specific column must be provided by user if required.**
- 6 ****The user should provide standard/reference compound (solution)/working electrodes and if someone need glassy carbon electrode from CIF, then INR 300 will be charged extra for electrode and binder used for it. For impedance measurement, the user is expected to provide fully prepared samples (e.g. pellets having silver contacts).**
- 7 **# Cost of gold coating is INR 100 per sample.**
- 8 **## Alumina crucible will be used.**
- 9 **Sample requisition form for each instrument is available in the form of annexure.**
- 10 **After successful submission of filled sample requisition form and payment, the samples should reach CIF within seven working days along with a copy of acknowledgement receipt.**

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Powder XRD

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411.

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Specifications to be used during measurement

S. No.	Sample Name/code	Nature of sample (e.g. Powder/ Thin Film)	Scanning range in 2-Theta (Degrees)	Scanning step in 2-Theta (Degrees)	Scanning rate (Degree/min)	JCPDS mapping required (Yes/No)
1						
2						
3						
4						
5						

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information. Samples should be very fine powder (If it is metal piece, the surface should be smooth and parallel to each other). Powder samples should be enough to cover 10 mm x 1 mm circular cavity. The metallic specimens should have a minimum physical dimension of 15 x 10 x 3 mm (not exceeding 5 mm thickness). Maximum time for each sample is 30 minutes. Exceeding 30 minutes, charges will be taken as per hour.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges under special circumstances.

- If the user requests to return the samples without performing analysis then 50% of the analysis charges will be refunded (GST paid will not be refunded).

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

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+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for GC-MS/MS/GC-FID

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

S. No.	Sample with nature (volatile/non-volatile)	Analysis type (Qualitative /Quantitative/Method development)	Column Type (with dimensions)	Temp. ramp (°C/min)	Initial oven Temp. (≥ 50°C)	Final oven temp. (≤ 325°C)	Solubility with preferred solvents	Temp. ramp (°C/min)	Expected mol. wt. and scan range	Required GC-MS/MS
1										
2										

3										
4										
5										

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Sample quantity required is 1ml with concentration of 1mg/100ml. Attach extra sheet for any additional information. Please ensure that sample does not contain water.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

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+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for FESEM

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

1. Total number of samples:

2. Please read carefully before filling the form.

In the Table, please mention the type of sample: Metallic/ Ceramic/ Polymer-Rubber/ Semiconductor/ Carbon materials/ Thin films or Others. For “Others”, please specify the details. Please also mention the type of detector to be used, whether Secondary Electron

Detector (SE) or Back Scattered Electron Detector (BSE). No magnetic samples will be tested. Dimension of Thin films should not exceed 1cm*1cm.

Please mention whether EDAX study is required or not for samples. If yes, please mention the type of study required, whether: Qualitative microanalysis/ Quantitative microanalysis/ X-ray mapping/ Line scan or all of the above.

A maximum of 5 samples per requisition form can be allowed. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Please provide sufficient amount of samples for the analysis.

3. Details of Samples

S. No.	Sample ID	Type of Sample	Gold coating required? (Yes/No)	Study using Detector	EDAX required? (Yes/ No)	Type of EDS analysis
1						
2						
3						
4						
5						

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.

- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

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+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Electrochemical Workstation

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Table: Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., solid electrolyte, solution, thin film etc.)	Type of Measurement	Reference electrode	Set parameters
1					
2					
3					
4					
5					

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information. Please ensure that sample does not contain water.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

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Requisition form for Fluorescence Spectroscopy

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

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Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., liquid)	Composition of the samples	Solubility data	Primary filter (Excitation filter)	Secondary filter (Emission filter)	Information about standard/reference
1							
2							
3							
4							
5							

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:

+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Refrigerated Centrifuge

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., DNA in solution)	Set parameters (e.g., Temperature)	No. of process cycles with duration	If any other
1					

2					
3					
4					
5					

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Thermo Gravimetric Analysis (TGA)

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others): Please fill Table 2.

Table 1. Measurement details

S. No.	Sample code/Id	Nature of sample (e.g. Organic/ Inorganic Polymer/Alloys etc.)	Heating range		Heating rate	Atmosphere to be used N ₂ /Air	Aim of analysis (e.g. Tg determination, Melting point determination etc.)
			From	To			
1							

2							
3							
4							
5							

Table 2: Please furnish the following information for each sample.

Sample. code	Ele. compo	Mol. formula	Whether it will react with Al ₂ O ₃ , Pt, Rh?	Whether the sample contains any of these materials?			Decomposition temperature (if known)	Tg (if known)	Melting point if known ?
				Halogen	Toxic	Radioactive			

Note: Maximum limit 5 samples per requisition form. It is mandatory to fill all the fields in the above Table. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Please furnish other information about the sample in Table 2. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:

+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Differential Scanning Calorimeter (DSC)

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others): Please fill Table 2.

Table 1: Measurement details.

S. No	Sample code/Id	Nature of sample (E.g. Organic/ Inorganic Polymer/Alloys etc.)	Heating range		Heating rate ³	Atmosphere to be used N ₂ /Air	Type of analysis required (DSC, TGA etc.)	Aim of analysis (E.g. Tg determination, Melting point determination etc.)
			From	To				
1								

2								
3								
4								
5								

Table 2: Please furnish the following information for each sample.

Sample code	Elemental composition	Molecular formula	Whether it will react with Al ₂ O ₃ , Pt, Rh?	Whether the sample contains any of these materials?			Decomposition temperature (if known)	Tg (if known)	Melting point if known?
				Halogen	Toxic	Radioactive			

Note: Maximum limit 5 samples per requisition form. It is mandatory to fill all the fields in the above Table 1. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Please furnish other information about the sample in Table 2. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Density Meter

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., solution, gel etc.)	Set parameters (e.g., concentration)	If any other
1				
2				

3				
4				
5				

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Viscometer

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., solution, gel etc.)	Set parameters (e.g., concentration)	If any other
1				
2				
3				
4				

5				
---	--	--	--	--

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for Particle Size and Zetapotential Analyzer

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details:

S. No.	Sample ID	Sample Type	Sample Location	Mode (Dry/Liquid)	Remarks*

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information. For liquid mode: 5 gm of sediment sample in pasty form (if the sample is estuarine/marine - make sure the sample is free from salinity, shells and organic matter). For dry Mode: 10 gm of sand sample (free from salinity and shells). Please specified the sample type (Sand/ Clay/ Soil/ Sediment/ Synthetic Material) and sample collection location (River/ Estuary Beach/ Offshore/ Others)

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for FTIR with Diamond ATR

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample code/ID	Nature of sample (e.g., solid, liquid)	Composition of the samples	Solubility data	IR range and mode required (Transmittance/Absorbance)	Matrix type (e.g., KBr etc.)
1						

2						
3						
4						
5						

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Attach extra sheet for any additional information. Sample should not contain water/moisture.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone no:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

Requisition form for HPLC

Date: _____

Name of User:

Designation of User:

Contact No.:

Email ID:

Purpose of analysis:

No. of Samples:

Name of Guide/Supervisor:

Department:

User: Internal/External (if internal please specify registration no/UID)

Payment options:

Option 1: Demand Draft

The DD (in favour of Lovely Professional University) should be submitted personally or by post at the following address: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) – 144411

Option 2: Online transfer

Transfer cash in A/C no., Bank name....., IFSC code.....

Use for PAYTM

Samples should be sent to: Central Instrumentation Facility (CIF), Division of Research and Development, Block 38-106, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411

Information of samples

Details (Chemical, Physical, Radioactive, Hazardous, others):

Measurement details

S. No.	Sample Nature	Analysis type (Qualitative/Quantitative/Method development)	Column Type (with dimensions)	Injection volume (μ l)	Column Temp. ($^{\circ}$ C)	Mode of operation (Isocratic/Gradient)	Flow rate (ml/min)	Run Time (Min.)	Mobile phase	Detector UV/VIS, PDA (λ .max), RI
1										
2										
3										
4										
5										

Note: Maximum limit 5 samples per requisition form. If the sample(s) are hazardous to the personnel or equipment then kindly provide appropriate handling instructions. Kindly consult CIF for sample/sample preparation before bringing your samples for analysis. Sample quantity required is 1ml with concentration of 1mg/ml.

Undertaking

- I/We undertake to abide by the safety, standard sample preparation guidelines and precautions during testing of samples. I/We do understand the possibility of samples getting damaged during handling and analysis. I/We shall not claim for any loss/damage to samples.
- CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired by the end user.
- We agree to acknowledge CIF, LPU in our publications and thesis if the results from CIF instrumentation are incorporated/used in them.
- I/We hereby declare that the results of the analysis will not be used for the settlement of any legal issue.
- CIF, LPU reserves the rights to return the samples without performing analysis and will refund the analytical charges (after deduction of GST) under special circumstances.

Name and signature of the user

Name and signature of the supervisor/PI

Signature of the HOD with stamp

For office use only

Lab reference no:.....

No. of samples:.....

Invoice/Receipt no:.....

Samples received on:.....

Samples analyzed on:.....

Results delivered on:.....

Name and signature of operator

Name and signature of laboratory in-charge

CENTRAL INSTRUMENTATION FACILITY (CIF)

LOVELY PROFESSIONAL UNIVERSITY

Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411, Telephone:
+911824444535, Fax no: +91824-506111, Email-id: cif@lpu.co.in

ANALYSIS REPORT

Customer address:

Requisition form ID:.....

Report No:.....

Sample receipt date:

Analysis report date:.....

Sample description:

TOTAL ANALYSIS RESULTS:

Sample ID	Analysis type	Result (Units)	Method of analysis	Instrument used	Sample analysis date with time

Note: CIF will ensure to safeguard the data privacy and strictly preserve the IPR of the users.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

All results are given in CD attached to this report

Enclosures: Raw data obtained from the instrument.

Name and signature of operator

Reviewed and Approved By (Name and signature of laboratory in-charge):

Date: