

## CENTRAL INSTRUMENT FACILITY

SR/ FACILITY	NAME OF THE INSTRUMENT	ACADEMIC CHARGES	INDUSTRY CHARGES
<b>A. Spectroscopic Facility</b>			
1	UV-VIS	Rs. 400/hr	Rs. 1000/hr
2	UV-VIS NEAR INFRARED	Rs. 800/hr	Rs. 2500/hr
3	FOURIER-TRANSFORM INFRARED SPECTROSCOPY (FTIR)	Rs. 600/hr	Rs. 2000/hr
4	ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED (ATR-FTIR)	Rs. 800/hr	Rs. 2500/hr
5	FLUORIMETER	Rs. 600/hr	Rs. 2000/hr
6	TIME-CORRELATED SINGLE PHOTON COUNTING (TCSPC)	Rs. 1000/hr	Rs. 2500/hr
7	RAMAN SPECTROSCOPY WITH CONFOCAL	Rs. 800/hr	Rs. 2500/hr
8	TRANSIENT ABSORPTION SPECTROSCOPY (ULTRAFAST)	Rs. 5000/hr	Rs. 10000/hr
9	CIRCULAR DICHROISM	Rs. 400/h	Rs. 1000/h
10	NUCLEAR MAGNETIC RESONANCE (NMR)	<p><b>*Rs.500 per sample</b> per element (1H, 13C, 19F, DEPT etc. in CDCl<sub>3</sub> or D<sub>2</sub>O);</p> <p><b>*Rs.700 per sample</b> per element (1H, 13C, 19F, DEPT etc. in DMSO-d<sub>6</sub>);</p> <p><b>*Rs.1000 per sample</b> (2D experiments (COSY, HSQC, HMBC, NOESY or ROESY)in CDCl<sub>3</sub> or D<sub>2</sub>O);</p> <p><b>*Rs.1200 per sample</b> (2D experiments (COSY, HSQC, HMBC, NOESY or ROESY)in DMSO-d<sub>6</sub>)</p> <p>* If solvent provided Rs.100/- less for above all fee Only DMSO solvent Rs.200/- less for additional spectra for same sample</p>	<p><b>*Rs.1000 per sample per element</b> (1H, 13C, 19F, DEPT etc. in CDCl<sub>3</sub> or D<sub>2</sub>O);</p> <p><b>*Rs.1400 per sample per element</b> (1H, 13C, 19F, DEPT etc. in DMSO-d<sub>6</sub>);</p> <p><b>*Rs.2000 per sample</b> (2D experiments (COSY, HSQC, HMBC, NOESY or ROESY)in CDCl<sub>3</sub> or D<sub>2</sub>O);</p> <p><b>*Rs.2200 per sample</b> (2D experiments (COSY, HSQC, HMBC, NOESY or ROESY)in DMSO-d<sub>6</sub>)</p> <p>* If solvent provided Rs.100/- less for above all fee Only DMSO solvent Rs.200/- less for additional spectra for same sample</p>
11	X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)	Rs. 2000 per sample	Rs. 4000 per sample
	ULTRAVIOLET PHOTOELECTRON SPECTROSCOPY (UPS)	Rs. 2000 per sample	Rs. 4000 per sample
12	Broad Band FMR spectrometer	Rs. 900 per hour	Rs. 1500 per hour

## B. Microscopic Facility

1	ATOMIC FORCE MICROSCOPY (AFM)	Rs. 1500/hr	Rs. 3000/hr
2	TRANSMISSION ELECTRON MICROSCOPY (TEM)	Rs. 3000/sample	Rs. 10000/sample
3	SCANNING ELECTRON MICROSCOPE (SEM)	Rs. 2000/sample	Rs. 5000/sample
4	CONFOCAL	Rs. 3000/sample	Rs. 5000/sample

## C. Scattering Facility

1	POWDER X-RAY DIFFRACTOMETER (PXRD)	Rs. 400/sample	Rs. 1000/sample
2	SMALL ANGLE X-RAY	Rs. 1000/hr	Rs. 1500/hr
3	PARTICLE SIZE ANALYSER	Rs. 850/hr	Rs. 2000/hr

## D. Chromatography Facility

1	GAS CHROMATOGRAPHY-THERMAL CONDUCTIVITY-FLAME IONIZATION DETECTOR (GC-TCD-FID)	Rs. 750/ injection	Rs.1500/ injection
2	GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS-FID)	Rs. 1500/ sample	Rs.3000/ sample
3	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) PDA DETECTOR	Rs. 500/sample	Rs. 1500/sample
4	HPLC-QUADRUPLE DALTON	Rs. 700/sample	Rs. 2000/sample
5	GEL PERMEATION CHROMATOGRAPHY (GPC)	Rs. 1000/sample	Rs. 2500/sample
6	ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY-SINGLE QUADRUPOLE	Rs. 800/ sample	Rs.2500/ sample
7	INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICPMS) + MICROWAVE SYNTHESIZER	Rs. 500/sample/element Subsequent element per sample: Rs 300/element	Rs. 1000/sample/element Subsequent element per sample: Rs 600/element

## E. Surface Characterization Facility

1	ELEMENTAL ANALYSER (CHNSO)	Rs. 800/ sample for CHNS & Rs. 1600/ sample for CHNSO	Rs. 1600/ sample for CHNS & Rs. 3200/ sample for CHNSO
2	PHYSISORPTION	Rs. 5000/ sample	Rs.10000/sample
3	CHEMISORPTION	Rs.10000/ sample	Rs.20000/ sample
4	HIGH PRESSURE BET	Rs.15000/ sample	Rs.30000/ sample
5	ELLIPOSOMETER	Rs.500/sample	Rs. 1000/sample
6	DROP SIZE ANALYSER	Rs.400/sample	Rs.700/sample
7	LASER ENGRAVER	Rs.500/sample	Rs.1000/sample
8	PLASMA CLEANER	Rs.200/sample	Rs.500/sample
9	NANO SPRAY COATER & DRYER	Rs.7000/ hr	Rs.14000/ hr
10	SURFACE PROFILER	Rs.400/sample	Rs.700/sample

## F. Advance Material Characterization Facility

1	ELECTROCHEMICAL WORK STATION	Rs. 300/hr for cv	Rs.1000/hr for cv
2	THERMOGRAVIMETRY (TG) AND DIFFERENTIAL THERMAL ANALYZER (DTA)	Rs 800/sample	Rs 2000/sample
3	DIFFERENTIAL SCANNING CALORIMETERS (DSC)	Rs 800/sample	Rs 2000/sample
4	RHEOMETER	Rs. 1000/hr	Rs. 2500/hr
5	ISOTHERMAL TITRATION CALORIMETER (ITC)	Rs. 200/hr	Rs. 400/hr
6	BIO-LAYER INTERFEROMETRY (BLI)	Single run (without sensors) Rs. 2000 INR/sample	Single run (without sensors) Rs. 4000 INR/sample
7	LOW TEMPERATURE DIFFERENTIAL SCANNING CALORIMETER (DSC)	Rs. 200/hr	Rs. 400/hr
8	PHYSICAL PROPERTY MEASUREMENT SYSTEM (PPMS)	Rs 500/ Hr (with magnetic field) Rs 300/ Hr (without magnetic field)	Rs 1000/ Hr (with magnetic field) Rs 700/ Hr (without magnetic field)
9	PULSED LASER DEPOSITION (PLD)	Rs 1000 / sample (substrate and target)	Rs 2000 / sample (substrate and target)
10	E-BEAM EVAPORATOR	Rs 800/sample (crucible and target to be provided by user)	Rs 1600/sample (crucible and target to be provided by user)
11	IMPEDANCE ANALYSER	Rs 400/sample	Rs 1000/sample
12	PC LOOP TRACER	Rs 400/sample	Rs 1000/sample
13	MASKLESS LASER MICRO WRITER	Rs 1000/sample	Rs 1500/sample
14	3-D PRINTER	Rs 500/sample	Rs 1000/sample
15	ELECTROSPINNING	Rs 500/hr	Rs 1200/hour
16	ULTRASONIC HOMOGENIZER	Rs 1000/ hr	Rs 2000/ hr
17	BALL MILLING	Rs 1000/ hr	Rs 2000/hr
18	SOLAR SIMULATOR	Rs 100/ hr	Rs 200/ hr
19	IPCE/ IV (WITH SOLAR SIMULATOR) INCL FABRICATION	Rs 10000/ sample	Rs 20000/ sample
20	CORONA POLING	Rs. 200/sample	Rs. 500/sample

## G. Advanced Biological Characterization Facility

1	PEPTIDE SYNTHESIZER	Rs. 1000/hour	Rs. 3000/hour
2	FLUORESCENCE-ACTIVATED CELL SORTING (FACS)	Rs. 200/sample	Rs.500/sample
3	CELL HOMOGENIZER	Rs 400/ sample	Rs 800/sample
4	PCR	Rs. 400/-	Rs. 1000/-
5	PLATE READER	Rs. 200/hr	Rs. 500/hr
6	FREEZE DRIER	Rs.1000 per sample up to 100 ml / 24 hr.	Rs. 2000 per sample up to 100 ml / 24 hr.
7	PROBE SONICATOR	Rs. 100/hr	Rs. 500/hr
8	ULTRACENTRIFUGE	Rs. 100/hr	Rs. 300/hr



9.	Nano Magnetic Hyperthermia system	<p><b>Calorimetric measurement in aqueous suspension*</b>          Rs. 1500/sample at 1 field and 1 frequency          (Further change in 1 parameter either frequency or field will cost Rs 500)  <i>*no organic solvents allowed.</i></p> <p><b>Measurement with Cell lines*</b>          Rs. 2500/sample at 1 field and 1 frequency          (Further change in 1 parameter either frequency or field will cost Rs 500)  <i>* Provide cell line/ or cells treated with nanoparticles</i></p>	<p><b>Calorimetric measurement in aqueous suspension*</b>          Rs. 2500/sample at 1 field and 1 frequency          (Further change in 1 parameter either frequency or field will cost Rs 500)  <i>*no organic solvents allowed.</i></p> <p><b>Measurement with Cell lines*</b>          3000/sample at 1 field and 1 frequency          (Further change in 1 parameter either frequency or field will cost Rs 500)  <i>* Provide cell line/ or cells treated with nanoparticles</i></p>
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**Note:**

- 1) The users may send their queries/request to email: [cif@inst.ac.in](mailto:cif@inst.ac.in)
- 2) External user are suggested to check our available instruments, specifications and types of sample compatibility and after confirmation by the CIF, payment should be done.
- 3) Once the payment is processed, then there is no provision of returning the payment due to sample compatibility issues or any issues.

**GST extra@18% as applicable**



## Sample Analysis Request Form

Name of Principal Investigator/Scientist: \_\_\_\_\_

Institution/Organisation: \_\_\_\_\_

Type of Organization (tick): i) Govt.

ii) Private/Industry

E-mail and contact number: \_\_\_\_\_

Postal address: \_\_\_\_\_

**Sample description in details (Attach separate sheet):** \_\_\_\_\_

Number of samples in details: \_\_\_\_\_

Sample Code and quantity: \_\_\_\_\_

If your sample is any of these: (Tick)

(Corrosive, Inflammable, Radioactive, Toxic, Carcinogenic, Volatile, Light sensitive, Explosive, Unstable)

Solvent/Medium used: *Please Specify*

Instrument/Machine required for analysis (in details): \_\_\_\_\_

Any special protocol for disposal, post-evaluation (Attach separate sheet, if required): \_\_\_\_\_

### **Payment Details\*:**

An amount of Rs. \_\_\_\_\_ (including GST@18%), dated \_\_\_\_\_ vide **DD/Online transfer no/UPI No** \_\_\_\_\_ drawn on (Bank name) \_\_\_\_\_ Mohali / Chandigarh, in favour of **DIRECTOR, INST** is enclosed.

*Please attach the receipt of the payment made.*

*[\*Once the payment is processed, then there is no provision of returning the payment, due to sample compatibility issues or any issues. External user are suggested to check our available instruments, specifications and types of sample compatibility and after confirmation by the CIF, any payments should be done].*

GSTIN of Applicant's institute/organization: \_\_\_\_\_

### **Undertaking:**

- I. I/We undertake to abide by the sample preparation guidelines. I/We submit the sample(s) in good faith and INST will not be held responsible for loss/damage due to reason(s) beyond its control.**
- II. I/We shall give due acknowledgement to the facility in the results so published in the journals.**
- III. After handing over the sample to the CIF/ respective instrument's in-charge, if some additional information is required regarding sample, researcher will have to provide it.**
- IV. I/We abide by the terms and conditions, as mentioned in page 2 of this form.**

(Name, Signature of Indenter/User and date)

(Signature & date) (Dean/Chairperson/Head of Institute/Organisation with seal)



## **Terms and Conditions**

1. **No sample will be processed without duly sample analysis request form and the payment.**
2. ***The samples will be analysed on first come first served basis after completion of all formalities. No enquiry from outside party regarding completion of analysis of samples will be entertained before 30 working days.***
3. **Samples for the analysis should be submitted according to the specific instruction given by the corresponding instrument in-charge. So external user are suggested to check our available instruments, specifications and types of sample compatibility before making any payments. Once the payment is processed, then there is no provision of returning the payment due to sample compatibility issues or any issues.**
4. ***The samples must be submitted in separate covers for different instruments to the authorized person with proper sample code, name of instrument, analysis required and quantity of sample. The same should be clearly mentioned on requisition form.***
5. ***In case of short payment/ incomplete form/ samples not prepared according to the specific instructions/ system problem; actual experiment will be done after sorting all issues and INST will intimate about the same.***
6. ***Samples requiring a specific method will not be accepted unless accompanied with detailed method and availability of requisite infrastructure/chemicals at INST. The receipt of payment should also be deferred in these cases till the time full clarity is obtained from party.***
7. ***The decision to analyse materials with following nature will be taken by the instrument in-charge: corrosive/Inflammable/Radioactive/Toxic/Carcinogenic/Volatile/Light sensitive/Explosive/Unstable***
8. ***Data to be only supplied in CD/DVD for all instruments except NMR which will be sent via Email for NMR. No USB is allowed.***
9. ***No responsibility will be taken for loss of sample during analysis.***
10. ***Samples will not be returned after analysis.***
11. **Samples will be analysed only for research & development purposes and these results cannot be used as certificates in legal disputes.**
12. **The Director's decision shall be final in case of any dispute.**

**This is to certify that I have read the above terms and conditions and agreed for the same.**

**(Signature of External User and date)**

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### **For Official Use**

1. Sample Analysis Request No : \_\_\_\_\_
2. Sample Receiving Date : \_\_\_\_\_
3. Name of instrument in-charge : \_\_\_\_\_
4. Data/Analysis Completion Date : \_\_\_\_\_
5. Report Number : \_\_\_\_\_
6. Remarks : \_\_\_\_\_
7. **(Name and Signature of INST Official and date)**



### **Bank Details of INST, Mohali**

<b>FAVOR:</b>	DIRECTOR, INSTITUTE OF NANO SCIENCE AND TECHNOLOGY, MOHALI
<b>BANK NAME:</b>	<b>CANARA BANK</b>
<b>ADDRESS:</b>	<b>SECTOR-34A, CHANDIGARH-160022</b>
<b>TYPE OF ACCOUNT:</b>	<b>CURRENT ACCOUNT</b>
<b>ACCOUNT NO.:</b>	<b>2452201001102</b>
<b>IFSC CODE:</b>	<b>CNRB0002452</b>
<b>MICR CODE</b>	<b>160015003</b>
<b>PAN No</b>	<b>AAAI4829E</b>
<b>GST IN No</b>	<b>03AAAI4829E1Z3</b>

**Please send your sample with proper descriptions to address mentioned below:**

## **CENTRAL INSTRUMENT FACILITY**

**Institute of Nano Science and Technology  
(An Autonomous Institute of the Department of Science and  
Technology, Ministry of Science and Technology,  
Government of India)**

**Knowledge City, Sector-81  
SAS Nagar, Mohali -140306 (Punjab)**

**Phone-0172-2297000**

**Email: cif@inst.ac.in**