



# सीएसआईआर-प्रगत पदार्थ तथा प्रक्रम अनुसंधान संस्थान

CSIR-ADVANCED MATERIALS & PROCESSES RESEARCH INSTITUTE

नर्मदापुरम रोड, भोपाल/NARMADAPURAM ROAD, BHOPAL-462026

File No. 2(87)/AMPRI/Testing Facilities/Gen.2024

Dated: 19.09.2025

## OFFICE MEMORANDUM

**Subject : Revision of rates of testing facilities and list of Processing Facilities available at this Institute.**

Director, CSIR-AMPRI, Bhopal, on the recommendation of the committee constituted to revise testing rates, has been pleased to approve the following revised rate for samples testing received from other institutes through the testing facilities/instrument available at this institute:

A. **Revised Rates of Testing Facilities:** These revised rates are exclusive of GST and it shall be charged as per applicable rate.

Sl. No.	Name of Equipment	Charges for Academic Institution (in Rs.)	Charges for Industry (in Rs.)	Remarks
1.	CNC Turning Centre	500/sample	1000/sample	
2.	CNC Vertical Milling Centre (VMC)	500/sample	1000/sample	
3.	CAD design software	500/hour	800/hour	
4.	Laser Powder Bed Fusion Processing additive manufacturing machine DMP FLEX 350 (3D SYSTEM) build volume 275X275X400 mm	2500/hour	4000/hour	Terms and conditions given at page number 4
5.	Fourier transform infrared spectrometer	500/sample	1000/sample	
6.	FTIR Spectrometer with universal quicksnap sampling machine	500/sample	1000/ sample	
7.	UV Visible spectrophotometer	600/sample	1200/sample	
8.	Inverted Fluorescence Microscope with four fluorescent filters (B, G, V, UV)	600/hour	1500/hour	
9.	Antimicrobial Testing Facility	400/sample Disc Diffusion  1250/sample Microbroth Dilution/Bacterial Viability Assy	800/sample Disc Diffusion  2500/sample Microbroth Dilution/Bacterial Viability Assy	
10.	Table-top X-ray Diffractometer	600/sample	1200/sample	
11.	Benchtop SEM with EDS	1000/sample (For imaging)	2000/sample (For Imaging)	Gold Coating –Rs.300 Per Sample
12.	Split Hopkinson Bar Setup for Tensile Testing	1500/sample	2500/sample	
13.	Bench Top XRD	600/sample	1200/sample	
14.	Weathrometer	1500/sample	2000/sample	

Sl. No.	Name of Equipment	Charges for Academic Institution (in Rs.)	Charges for Industry (in Rs.)	Remarks
15.	Fully Automated sequential wavelength Dispersive X-ray Fluorescence spectrometer(WDXRF)	2000/sample	2500/sample	1000/sample (Sample preparation charges)
16.	KEM QUICK Thermal Conductivity Meter	1500/sample	2500/sample	Up to 5 Temp / step After 5 Temp / step Rs. 500 per Temp / step
17.	LCR Meter Dielectric Constant & Dissipation Factor Measurement Setup	1000/sample	1500/sample (LCR meter) 2000/sample (Dielectric constant)	
18.	Thermogravimetric analysis TGA/DTA system	1500/sample (up to 600°C) 3000/sample (up to 1500°C)	2500/sample (up to 600°C) 4000/sample (up to 1500°C)	
19.	Field Emission Transmission Electron Microscope	3500/sample Imaging	5500/sample Imaging	Sample Preparation charges for bulk materials are Extra which is given at page number 4
20.	Polishing units Twin-Jet Electropolisher	2100 Upto 3 Sample Per Electrolyte (at Room Temp.)  2500 Upto 3 Sample Per Electrolyte (at Cryogenic Temp.)	4200 Upto 3 Sample Per Electrolyte (at Room Temp.)  5000 Upto 3 Sample Per Electrolyte (at Cryogenic Temp.)	User should bring the required Chemicals/ Electrolytes/ Consumables/ Disposables as per sample requirements
21.	Raman Spectrometer	800/sample	2500/sample	
22.	Differential Scanning Calorimeter	1500/sample	2500/sample	
23.	Particle Size Analyzer	1000/sample	1500/sample	
24.	Digital Optical metallurgical microscope, DM 6000M	600/sample	1000/sample	
25.	Optical Metallurgical Microscope, DM 2700	600/sample	1000/sample	
26.	E-Beam powder bed fusion additive manufacturing facility	3500/hour	6000/hour	
27.	Table-top Atomic Force Microscopy	3000/sample For coating and film Samples	5000/sample For coating and film Samples	
28.	Computer Controlled Benchtop Tribometer	1000/sample (for 10 min-30min run time i.e. 1000-3000 frictional cycles)	2000/sample (for 10 min-30min run time i.e. 1000-3000 frictional cycles)	For measurement time above 1h, the price will be available on request.
29.	Optical Microscope	600/sample	1000/sample	
30.	Contact Angle Analyzer	350/sample	750/sample	
31.	Advanced UV-Vis Spectrophotometer ND-ONEC-W	800/sample Liquid sample	1500/sample Liquid sample	

Sl. No.	Name of Equipment	Charges for Academic Institution (in Rs.)	Charges for Industry (in Rs.)	Remarks
32.	DMIRB for TL and FL with photo/TV side port LEICA MICROSCOPE	600/sample	1000/sample	
33.	Motorized Inverted Research microscope	600/sample	1000/sample	
34.	Thermal Conductivity System	1500/sample Up to 5 Temp / step After 5 Temp / step Rs. 500 per Temp / step	2500/sample Upto 5 Temp / step After 5 Temp / step Rs. 500 per Temp / step	
35.	Electro Mechanical UTM	1000/sample	2000/sample	
36.	X-ray attenuation Testing Facility	4000/sample	7000/sample	
37.	Thermal Property Analyser	1500/sample For thermal diffusivity/thermal conductivity (data for density & specific heat capacity to be provided by user)  2000/-sample For thermal conductivity with specific heat capacity measurement Density & specific heat capacity (data for density to be provided by user)	2500/sample For thermal diffusivity/thermal conductivity (data for density & specific heat capacity to be provided by user)  3500/-sample For thermal conductivity with specific heat capacity measurement Density & specific heat capacity (data for density to be provided by user)	For 5 measurement steps only, beyond 5 temperatures steps, an additional charge of Rs. 500/temperature step per sample will be charged.
38.	HPLC	1500/sample	2500/sample	User should bring the required Chemicals/ Electrolytes/ Consumables/ Disposables as per requirements
39.	XRD X-Ray Diffractometer	800/sample	1500/sample	
40.	Thermogravimetric Analysis-Differential Scanning Colorimetry (TGA-DSC)	1500/sample (up to 600 <sup>0</sup> C ) 3000/sample (up to 1500 <sup>0</sup> C )	2500/sample (up to 600 <sup>0</sup> C ) 4000/sample (up to 1500 <sup>0</sup> C )	
41.	Atomic Absorption Spectrophotometer	750/sample/element	1500/sample/element	

Sl. No.	Name of Equipment	Charges for Academic Institution (in Rs.)	Charges for Industry (in Rs.)	Remarks
42.	Microplate Reader/ Microplate Spectrophotometer	150/ plate (Absorbance Mode)	400/Plate (Absorbance Mode)	
43.	UTM -50KN	800/sample	1500/sample	
44.	UTM-25 KN-HT	1000/sample	2000/sample	For HT, up to 50°C
45.	Fibre Testing Machine	800/sample	1500/sample	
46.	Impact Tester	500/sample	1000/sample	
47.	Surface/Volume Resistivity	1000/sample	2000/sample	
48.	Stereo Microscope	600/sample	1000/sample	
49.	FESEM	1500/sample	2500/sample	Gold Coating – Rs. 300 Per Sample
50.	UHT	200/sample	600/sample	
51.	OES Spectrometer (Al and Mg Base)	750/sample	1500/sample	
52.	Table-top XRD	600/sample	1200/sample	
53.	DSC, Mettler Make	1500/sample	2500/sample	
54.	Fluorescence Spectrometer	500/sample	1000/sample	

#### TEM Sample Preparation Tools (Usage Charges for external users)

Name of Equipment	Slot Duration / No. of Samples	Academic & R& D Labs (in Rs.)	Industry (in Rs.)
Ion Milling System	One Hour	500	1000
Ultrasonic Disc Cutter	One Hour	400	800
Dimple Grinder	One Hour / One Sample	400	800
Disc Grinder	One Hour / One Sample	400	800
Low Speed Diamond Saw	One Hour	500	1000
Twin-Jet Electropolisher	Upto 3 Sample (at Room Temp.)	2100	4200
Twin-Jet Electropolisher	Upto 3 Sample (at Cryo. Temp.)	2500	5000
Disc Punch (For 3.0 mm disc from ductile and soft materials, e.g., Al / Cu / other similar ductile foils or sheets with thickness $\leq$ 150 $\mu$ m)	Upto 5 Sample	400	800
Charges to be paid with applicable GST			

Guidelines to Use the above equipment's:

- Contact Analytical HRTEM Laboratory staff to discuss procedure and safety training.

#### Terms And condition for Metal 3D Printer are as follows :

- Metal/alloy powder shall be provided by user.
- CSIR-AMPRI will not be responsible for characterixitc properties of 3D printed components, as metal powder is procured from a third party.
- Samples/results will be delivered within 30 days after receiving the powder.
- Suitability of printing an alloy needs to be discussed with facility In-charge before taking the order/service.
- Printing of an alloy involves parameter optimization for printing; therefore actual time of printing may be higher in some cases, from the software calculated one.

**B. List of Processing Facilities Available at CSIR-AMPRI (Price will be on provided on request)**

SN	Name of Equipment
1.	Electrochemical workstation
2.	Semi-Automatic Screen Printer
3.	Glove Box
4.	Multi Auto Lab Multichannel Potentiostat
5.	Automated Electrospinning Machine
6.	Digital Compression Molding Machine
7.	Cryo-Attritor Mill
8.	Planetary Ball Mill
9.	High speed camera
10.	Hot press for spark plasma Sintering facility
11.	Powder roll Compactor
12.	3D Printer
13.	Computer Controlled Servo Hydraulic Compression and Flexure Testing Machine
14.	Planetary Ball mill
15.	Grinding cum Ball mill
16.	Extruder for making granules of Paddy straw and PLA Polymer
17.	Electromagnetic Manufacturing Forming Machine
18.	High Performance Computing workstation
19.	3D Scanner
20.	CHEMICAL Vapor Deposition system
21.	Computer Controlled Magnetron Sputter
22.	Plasma-based hybrid thin film deposition tool
23.	Source Measurement unit
24.	Source Measure Unit
25.	RTP-CVD Tool
26.	High Velocity Oxygen fuel Spray coating unit
27.	Microwave chemical vapour deposition system
28.	Electrochemical workstation
29.	Multijet and Thermal Jet Extrusion based 3D Printer
30.	Spin Coater
31.	Programmable Capillary Electrophoresis System
32.	Eitre 3 Nanoimprint Lithography
33.	BOD INCUBATOR
34.	CARBON DI OXIDE INCUBATOR
35.	DLAB Refrigerated Centrifuge
36.	Ultra Low Temp. Deep Freezer (-80 deg)
37.	Probe Sonicator
38.	Fume Hood Setups for the Graphene Centre
39.	Double Action Hydraulic press
40.	Wire Drawing machine
41.	Strain Measurement system
42.	Plasma Enhanced CVD
43.	Programmable horizontal three zone tabular furnace
44.	High Temperature Vacuum hot press
45.	Semi automated Hot Press

SN	Name of Equipment
46.	Multichannel Electrochemical Workstation.
47.	Atmospheric CVD Tubular Split Furnace with Liquid Precursor assembly
48.	Electro Chemical Workstation
49.	3D Printer with Electrode position Facility
50.	3D Printer with workstation
51.	FDM High Temp Filament extruder
52.	Tubular furnace with gas purging
53.	Fluidized Bed Spray Coating System
54.	Closed cell al foam with system with Automation
55.	Cryomill alongwith spares & accessories
56.	Multi Channel Electrochemical work Station
57.	Hydrualic Press
58.	Low Tonnage Compression Testing Machine

### **General Terms and Conditions**

1. These charges are only for external users.
2. Rates are exclusive of GST (GST will be as per government rates)
3. Raw machine data will be provided to the users.
4. Test results and data will be shared after verification of the payment from finance department of CSIR-AMPRI
5. Sample collection after the measurement is responsibility of the user only, about which prior information during sample booking request need to be provided. Also User needs to arrange the pickup in own cost.
6. The analytical data/Test results are provided only for research/ development purposes. These cannot be used as certificates in legal disputes.
7. In case of bulk samples, testing can be taken up in project mode after discussion with the party, and due approval from the competent authority
8. Payment will be taken as per institute procedure
9. These rates will supersede all the previous charges
10. The charges for new facilities / upcoming testing facilities will be decided further on case to case basis.
11. These charges are only for measurement / testing on the instruments and do not include analysis part.
12. All the External samples measurement / testing request will be through ISTEM portal only
13. Material Data Sheet/Information about Hazardous nature of the sample should be provided by external users wherever applicable.
- 14. For further queries contact at [istem-ampri@csir.res.in](mailto:istem-ampri@csir.res.in)**

**Section Officer (G.)**

To,  
All Concerned Scientist/Officials

Copy to:

1. PPS to Director,
2. CoA Office
3. Chairman, Committee to revise rates of Testing Facilities
4. Dr. Vandana, Sr. Principal Scientist & Nodal Officer, I-STEM
5. All Sectional/Divisional Heads
6. Head IT Cell : Please Upload this Office OM on AMPRI website.
7. Notice Board