

**Central Institute of Petrochemicals Engineering & Technology (CIPET)**  
**School for Advanced Research in Petrochemicals (SARP) - LARPM**  
**Bhubaneswar**

Sl. No.	Analytical Instrument Facility	Developmental Charges ( ` )
1	Identification of Polymer / Plastic Materials	` 6,000.00 / Sample
2	Transmission Electron Microscopy (TEM)	` 3,000.00 / Sample
	Sample Preparation for TEM (by Cryomicrotomy). Liquid Nitrogen cost as per actual	` 2,000.00 / Sample
3	Scanning Electron Microscopy (SEM)	` 3,000.00 / Sample
4	Hotstage Optical Microscope	` 1,500.00 / Sample at Room Temperature (RT)
		` 3,000.00 / Sample at High Temperature (HT)
5	Gel Permeation Chromatography (GPC)	` 10,000.00 / Sample (Per Single Run)
6	Fuel Cell (Single Stack) Performance Analysis	` 2,500.00 / Sample
7	Atomic Force Microscope (AFM)	` 3,000.00 / Sample
8	Dynamic Mechanical Analysis (DMA), RT-300°C @10°C/min	` 2,000.00 / Sample
9	Differential Scanning Calorimetry (DSC) (-) 70 to 300°C @ 10°C /min	` 2,000.00 / Sample
10	Thermo Gravimetric Analysis (TGA) RT-800°C @10°C/min	` 2,000.00 / Sample
11	X-Ray Diffraction (XRD)	` 3,000.00 / Sample
12	Parallel Plate Rheometer	` 1,100.00 / Sample
13	FTIR Spectroscopy	` 2,000.00 / Sample
14	CHNS/O Elemental Analyzer	` 3,500.00 / Sample
15	Thermal Conductivity Tester (Guarded Hot Plate)	` 1,200.00 / Sample / Per Temperature
16	Environmental Test Chamber	` 200.00 / Hour
17	Melt Compounding with Micro Compounder	` 2,500.00 / Batch
18	Universal Testing Machine (UTM) (5 nos) (Tensile) Room Temp (23°C)	` 1,300.00 / Sample
	Below Ambient Temperature, Liquid Nitrogen cost as per actual	` 2,000.00 / Sample
	Above Ambient Temperature (50° C to 200°C)	` 2,000.00 / Sample
19	Universal Testing Machine (UTM) (5 nos) (Flexural/Compressive)	` 1,100.00 / Sample at RT
		` 2,000.00 / Sample at above & below Room Temperature (Liquid Nitrogen charges as actual)
20	Weather-O-Meter (Xenon Exposure)	` 190.00 / hr. for first 100 hrs.
		` 175.00 / hr. for subsequent hrs.

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21	Weather-O-Meter (UV Exposure)	` 65.00 / hr. for first 100 hrs. ` 40.00 / hr. for subsequent hrs.
22	Compression Molding	` 1,000.00 / Sheet
23	Density	` 700.00 / Sample
24	Twin Screw Extruder (Haake Polylab OS) (with pelletizer @100 gms per batch)	` 3,000.00 (upto 4 hrs) ` 4,260.00 (per shift, 8 hrs)
25	Melt Compounding using Haake Polylab OS (Batch Mixer@ 50 gm per batch)	` 2,500.00 (upto 2 kg per grade per batch) ` 850.00 (for additional compounding per kg)
26	Twin Screw Extruder (OMEGA-25)	` 3,000.00 (upto 4 hrs) ` 4,260.00 (per shift, 8 hrs)
27	Water Vapor Transmission Rate (WVTR)	` 1,200.00 / Sample
28	Oxygen Transmission Rate (OTR)	` 2,000.00 / Sample
29	Melt Flow Index (MFI)	` 1,100.00 / Sample
30	Flammability (as per UL Standards)	` 2,900.00 / Sample
31	Sample Preparation by:- • Contour Cutter • Injection Moulding • Injection Moulding (Micro Injection Jet)	` 500.00 (for 5 nos.) ` 1,000.00 (for 10 nos.) ` 2,500.00 (for 5 nos.)
32	Impact Test (IZOD & CHARPY) at RT • Notched • Un-notched	` 1,100.00 / Sample
33	Heat Deflection Temp (HDT)	` 1,100.00 / Sample
34	Vicat Softening point (VSP)	` 1,100.00 / Sample
35	Haze/Luminous Transmittance	` 700.00 / Sample
36	Spin Coater	` 700.00 / Sample
37	Cone Calorimetric Studies (03 nos. of Specimen) for Single Heat Flux	` 20,000.00 / Sample
38	Fatigue Test (Tension Mode) • Upto1000 Cycles or per hour • Subsequent 500 Cycles @ ` 250.00	` 2,500.00 / Sample ` 250.00 / Sample
39	Gas Chromatography (GC)	` 3,000.00 / Sample
40	Toxicity Test	` 50,000.00 / Sample

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41	Spread of Flame	` 7,500.00 / Sample
42	Smoke Density	` 7,500.00 / Sample
43	Contact Angle Measurement	` 1,500.00 / Sample
44	Particle Size Analysis	` 2,000.00 / Sample
45	High Temperature GPC	` 10,000.00 / Sample (Per Single Run)
46	Biodegradation as per ISO 17088:2012 (Specifications for Compostable Plastics under Composting Condition.(Aerobic Biodegradability)	` 3,75,000.00 / Sample
47	ISO 17556:2019 - Biodegradability of Plastic Materials in Soil (Measuring the Oxygen demand in a Respirometer or the amount of Carbon dioxide evolved)	` 3,75,000/- for initial 06 months. Additional charges of ` 32,000/- shall be charged per month as per the test demands not more than 02 years
48	Surface Resistivity	` 1,100.00 / Sample
49	Volume Resistivity	` 1,100.00 / Sample
50	Arc Resistance	` 1,100.00 / Sample
51	Dielectric Test	` 1,100.00 / Sample
52	Taber Abrasion	` 875.00 / Sample
53	Tear Test	` 750.00 / Sample
54	Co-efficient of friction	` 850.00 / Sample
55	Limiting Oxygen Index	` 1,200.00 / Sample
56	Hardness : • Shore A • Shore D • Rockwell Hardness	` 500.00 / Sample ` 500.00 / Sample ` 500.00 / Sample
57	GCMS	` 6,000.00 / Sample/per injection
58	BET	` 5,000.00 / Sample
59	Raman Spectrometer	` 3,000.00 / Sample
60	ICP-MS	` 750.00 / Element. Digestion charges
		` 1,500.00 / Sample
61	Glove Box	` 3,000.00 / Shift
62	Electrospinning	` 3,000.00 / Batch

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63	3D Printer	` 750.00 / Hour + Material cost as per actual
64	NMR(F19, C13,H1, Solution state)	` 2,500.00 / Sample
65	Electrochemical work station	` 750.00 / Hour
66	Battery Tester	` 750.00 / Hour
67	UV visible/NIR	` 850.00 / Sample
68	Fluorespectrometer	` 850.00 / Sample
69	3D bluelight scanner	` 2,000.00 / Sample
70	Solar Simulator	` 2,000.00 / Hour
71	Semiconductor Parameter Analyser with Probe Station (Temperature)	` 500.00 / Sample
72	Impedence Anlyser with Temperture	` 1,100.00 / Sample without temperature
		` 2,000.00 / Sample with temperature
73	Salt Spray	` 300.00 / Hour
74	Two Roll Mill	` 500.00 / Batch
75	Freeze Dryer (lypoliser)	` 200.00 / Hour
76	Life Cycle Analyser Software	` 300.00 / Hour
77	Plasma Cleaner(Ar,O3)	` 200.00 / Sample
78	Capillary Rheometer (Melt Viscosity)	` 2,600.00 / Sample
79	LC / HRMS	` 10,000.00 / Sample
80	Gloss	` 700.00 / Sample
81	Determination of the ultimate Anaerobic Biodegradation under High-Solids Anaerobic-Digestion conditions - Method by analysis of released biogas for first 06 months (as per ISO 15985)	` 3,75,000.00 / Sample

***The charges for Liquid Nitrogen shall be as per actual to fulfill the test requirement for Mechanical, DMA, Cryo-milling, Sample preparation through Cryomicrotomy for TEM, etc. (subject to the availability Liquid Nitrogen)***

The Charges listed above do not include cost of consumables or other charges for value added services. Rate of value added services and consumables are listed below.

**Note:**

1. GST as per the applicable rates.
2. The minimum test charges ` 1,500/- per assignment (excluding of taxes)
3. Test Charges for overseas test assignment at three times of the test charges and payment be in terms of USD.
4. Urgent samples on an immediate basis can be done at double the above mentioned rates.
5. The analytical data / spectra are provided only for research / development purposes. These cannot be used as certificates in legal disputes. Developmental test charges are payable in advance, by crossed bank draft in favour of “**CIPET LARPM**” payable at Bhubaneswar

***For transferring of fund:***

<b>Account No.</b>	<b>120028051434</b>
<b>Name of the Account</b>	<b>CIPET SARP LARPM Holding Account</b>
<b>Name of Bank</b>	<b>Canara Bank</b>
<b>Name of the Branch</b>	<b>College of Engineering Bhubaneswar (CEB) - 751024</b>
<b>IFSC Code</b>	<b>CNRB0018009</b>
<b>MICR Code</b>	<b>751015024</b>
<b>Vendor Code on gbiz portal of Canara bank</b>	<b>CVM500000017309</b>

6. Samples and payment should be sent preferably in the same cover. Separate samples should be sent for different analysis. Samples will not be analyzed till payment is received.
7. In all correspondence related to analysis our reference number must be mentioned.

8. Radio-active material should be clearly mentioned and handed over personally.
9. Unstable and explosive compounds are not accepted for analysis.
10. Services are rendered to only those users who regularly give us feed-back about the end-use of the results, e.g., thesis, patent, process, publication etc.
11. Interpretation of spectra is not undertaken normally. In special cases this service can be provided on payment of extra charges.

All Communications should be addressed to :

**Principal Director & Head / Sr. Principal Scientist**  
**CIPET : SARP-LARPM**  
**B/25, CNI Complex, Patia, Bhubaneswar – 751 024, Odisha**  
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