National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CIPET:SARP-LABORATORY FOR ADVANCED RESEARCH IN POLYMERIC MATERIALS, B/25, CNI COMPLEX, PATIA, BHUBANESWAR, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/10/2021 to 05/09/2023 **Last Amended on** 14/03/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	BIOLOGICAL- TOXICOLOGY	Soil & Compost	Determination of acute ecotoxic effects to earthworm	ISO-17088(Annex-D)
2	BIOLOGICAL- TOXICOLOGY	Soil & Compost	Determination of chronic ecotoxic effects to earthworm	ISO-17088(Annex E)
3	BIOLOGICAL- TOXICOLOGY	Soil & Compost	Determination of ecotoxic effects on higher plants	IS/ISO 17088 (Annex C)
4	BIOLOGICAL- TOXICOLOGY	Soil & Compost	Determination of effects on reproduction of Eisenia fetida/Eisenia andrei	ISO 11268-2
5	BIOLOGICAL- TOXICOLOGY	Soil & Compost	Earthworm reproduction test	OECD 222
6	BIOLOGICAL- TOXICOLOGY	Soil & compost	Earthworm, Acute Toxicity Tests.	OECD 207
7	BIOLOGICAL- TOXICOLOGY	soil & compost	Terrestrial Plant Test: Seedling Emergence and Seedling growth test	OECD 208
8	BIOLOGICAL- TOXICOLOGY	soil and compost	Determination of acute toxicity to Eisenia fetida/Eisenia andrei	ISO 11268-1
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Plastic Product.	Arsenic (As)	ISO 17088(Annex A)
10	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & plastic products	Cadmium (Cd)	ISO 17088 (Annex-A)
11	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Plastic products	Chromium (Cr)	ISO 17088 (Annex-A))
12	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & plastic products	Cobalt (Co)	ISO 17088 (Annex-A)
13	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & plastic products	Lead (Pb)	ISO 17088 (annex-a)
14	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & plastic products	Mercury (Hg)	ISO 17088(Annex-A)
15	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Plastic products	Nickel(Ni)	ISO 17088 (annex-A)
16	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Plastic products	Zinc(Zn)	ISO 17088 (Annex-A)
17	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Plastics products.	Copper (Cu)	ISO 17088 (Annex-A)
18	CHEMICAL- PETROLEUM AND PRODUCTS	Petroleum Products and Lubricants	Carbon content	ASTM D 5291

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19	CHEMICAL- PETROLEUM AND PRODUCTS	Petroleum Products and Lubricants	Hydrogen content	ASTM D 5291
20	CHEMICAL- PETROLEUM AND PRODUCTS	Petroleum Products and Lubricants	Nitrogen content	ASTM D 5291
21	CHEMICAL- PLASTIC & RESINS	Plastic & Polymers, Film	Water vapour Transmission Rate	ASTM D 1653
22	CHEMICAL- PLASTIC & RESINS	Plastic materials, Sheet film & products	Exposure of Fluorescent Ultraviolet (UV)	ASTM D 5208:14
23	CHEMICAL- PLASTIC & RESINS	Plastic Products, materials & film	Evolved carbon dioxide (CO2) for determining aerobic biodegradation of plastic materials in soil	ISO 17556
24	CHEMICAL- PLASTIC & RESINS	Plastic Products, materials & film	Evolved carbon dioxide (CO2) for determining aerobic biodegradation of plastic materials in soil	ASTM D 5988
25	CHEMICAL- PLASTIC & RESINS	Plastic Products, materials & Film	Evolved carbon dioxide (CO2) for determining aerobic biodegradation of plastic materials under controlled composting conditions	ASTM D 5338:15
26	CHEMICAL- PLASTIC & RESINS	Plastic Products, materials & film	Evolved carbon dioxide (CO2) for determining aerobic biodegradation of plastic materials under controlled composting conditions	ISO 14855-1
27	CHEMICAL- PLASTIC & RESINS	Plastics & materials, Composite,	Spread Of Flame	UIC 564, Appendix-11-91
28	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, , Raw Material, Sheet,Resin	Heat deflection temerature	ASTM D 648
29	CHEMICAL- PLASTIC & RESINS	Plastics & polymers, Composite	Smoke Density	ASTM D 2843
30	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Composite, Resin, Film	Toxicity Test	NCD 1409
31	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film,	Water Vapour Transmission rate	ASTM E 96/E96M
32	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film, Raw Material, Sheet,Resin	Identification of Polymer (By FTIR)	ASTM E1252
33	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film, Resin	Compositional analysis (thermogravimetry)	ASTM E 1131

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34	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film, Resin	Loss on drying by TGA	ASTM E 1868
35	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film, Resin	vicat Softening Temperature	ASTM D 1525
36	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Film, Resin, Sheet	Identification Of polymer (By FTIR)	ASTM D 5477
37	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Films, Resin	Crystallization Temperature by DSC	ASTM D 3418
38	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Foam, Sheet,	Flammability(Vertical & Horizontal)	UL-94
39	CHEMICAL- PLASTIC & RESINS	Plastics & polymers, resin	Melt Flow Rate	ASTM D 1238
40	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Resins, film	Glass Transition Temperature by DSC	ASTM D 3418
41	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Sheet	Thermal Conductivity(Guarded Heat Flow Meter Technique)	ASTM E 1530
42	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Sheet, FRP, Composite	Heat Release Rate	ISO-5660-1
43	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers, Sheet, FRP,Film	Xenon Arc Weathering	ASTM G 155
44	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers,Resin	VCM Content	IS-10151
45	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers,Sheet, Film,	Accelerated Weathering UV-B lamp	ASTM G 151
46	CHEMICAL- PLASTIC & RESINS	Platics & Polymers, Film, Resin	Melting Temperature by DSC	ASTM D 3418
47	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture-Holding Capacity	ASTM D 2980
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	pH	IS 3025(Part-11)
49	ELECTRICAL- MISCELLANEOUS	Plastic materials & products	DC Resistance or Conductance of Insulating Materials.	ASTM D 257
50	ELECTRICAL- MISCELLANEOUS	Plastic materials & products	Dry Arc Resistance of Solid Electrical Insulation.	ASTM D 495
51	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Determination of Moisture in Plastics by Loss in Weight.	ASTM D 6980
52	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Abrasion Resistance of Organic Coatings by the Taber Abraser.	ASTM D 4060

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53	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness (Shore-A)	ASTM D 2240:15
54	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness (Shore-D)	ASTM D 2240:15
55	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Melt mass-flow rate (MFR) of thermoplastics	ISO 1133-1
56	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Melt volume-flow rate (MVR) of thermoplastics	ISO 1133-1
57	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Propagation Tear Resistance Of Plastic Film And Thin Sheeting By Pendulum Method.	ASTM D 1922:15
58	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Rockwell Hardness of plastics & electrical insulating materials	ASTM D 785
59	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Specular Gloss of Plastic Films and Solid Plastics.	ASTM D 2457
60	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Specular gloss.	ASTM D 523:14
61	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Static & kinetic Coefficients of friction of plastic film & sheeting.	ASTM D 1894
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products, FRP, Sheet	Compressive Properties : Compressive Strain	ASTM D 695
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products, FRP, Sheet	IZOD Impact Strength	ASTM D 256
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products, FRP, Film, Sheet	Compressive Properties : Compressive Stress	ASTM D 695
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & products, FRP, Film, Sheet	DMA in Dual cantilever Beam: Tan delta	ASTM D 5418
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & products, FRP, Film, Sheet	DMA in dual cantilever Beam:Loss Modulus	ASTM D 5418
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products, FRP, Sheet	Charpy Impact test	ASTM D 6110
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in compression, Tan Delta	ASTM D 5024
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in compression: Loss Modulus	ASTM D 5024
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in Compression: Storage Modulus	ASTM D 5024

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71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in Tension, Tan Delta	ASTM D 5026
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in tension: Loss Modulus	ASTM D 5026
73	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	DMA in tesnsion, Storage Modulus	ASTM D 5026
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	Flexural Properties: Flexural Modulus	ASTM D 790
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	Flexural Properties: Flexural Strain	ASTM D 790
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Film , Sheet	Flexural Properties: Flexural Stress	ASTM D 790
77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP, Sheet	Specific Gravity & Density	ASTM D 792
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & products, FRP,Film, Sheet	DMA in Dual Cantilever Beam: Storage Modulus	ASTM D 5418
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Materials & Products, FRP,Sheet	Elongation % at break	ASTM D 638
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics materials & Products,FRP,Sheet	Tensile Strength	ASTM D 638
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Film	Tensile Properties: Elongation %	ASTM D 882
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric film	Tensile Properties: Tensile strength	ASTM D 882