National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRO REMEDIATION & RESEARCH LABORATORY LLP, GALA NO. 7, GROUND FLOOR, HDIL INDUSTRIAL PARK, BUILDING NO.14, CHANDANSAR, VIRAR (E), THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 09/05/2022 to 08/05/2024 **Last Amended on** 23/03/2023

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	Compostable Plastics	Acute ecotoxic effects on earthworm	IS/ISO 17088, Annex–D
2	BIOLOGICAL-TOXICOLOGY	Compostable Plastics	Chronic ecotoxic effects to earthworm	IS/ISO 17088, Annex–E
3	BIOLOGICAL-TOXICOLOGY	Compostable Plastics	Ecotoxic effects on higher plants	IS/ISO 17088, Annex–C
4	BIOLOGICAL-TOXICOLOGY	Soil	Acute toxicity to Eisenia fetida/Eisenia Andrei	ISO 11268–1
5	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Measuring the oxygen demand in a closed respirometer for Ultimate aerobic biodegradability of plastic materials in an aqueous medium.	IS/ISO 14851
6	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Carbon Dioxide and Methane Evolved Content	ASTM D5526
7	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Carbon Dioxide and Methane Evolved Content (by conversion of carbon content of plastic material into gases under anaerobic digestion conditions)	ASTM D5511
8	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Carbon Dioxide and Methane Evolved Content (by conversion of carbon content of plastic material into gases under anaerobic digestion conditions)	BS EN ISO 15985
9	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Carbon Dioxide Evolved Content	ASTM D6691
10	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test	IS/ISO 16929
11	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Degree of disintegration of plastic materials under simulated composting conditions in a laboratory-scale test	IS/ISO 20200

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12	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Evolved carbon dioxide for Ultimate aerobic biodegradability of plastic materials in an aqueous medium	IS/ISO 14852
13	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Gas production of anaerobic bacteria	ISO 13641-1
14	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers	Measurement of biogas production for Ultimate anaerobic biodegradation of plastic materials in an aqueous system	IS/ISO 14853
15	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers Plastic Products and materials, packaging made from plastics Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing) Compostable Packaging and packaging materials Plastic Products and materials, packaging made from plastics (compostable in municipal and industrial composting facility) Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing)	Carbon content	ASTM D 5291
16	CHEMICAL- PLASTIC & RESINS	Plastic Films / Sheets / Paper coated Films / Granules / Powder / Polymers Plastic Products and materials, packaging made from plastics Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing) Compostable Packaging and packaging materials Plastic Products and materials, packaging made from plastics (compostable in municipal and industrial composting facility) Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing)	Weight loss, Carbon Dioxide evolved content and Visual Observation	ASTM D 6954
17	CHEMICAL- PLASTIC & RESINS	Plastic Products and materials, packaging made from plastics (compostable in municipal and industrial composting facility) Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases under controlled composting conditions)	ASTM D 5338
18	CHEMICAL- PLASTIC & RESINS	Plastic Products and materials, packaging made from plastics (compostable in municipal and industrial composting facility) Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing)	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases under controlled composting conditions)	ISO 14855-1

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19	CHEMICAL- PLASTIC & RESINS	Plastic Products and materials, packaging made from plastics (compostable in municipal and industrial composting facility) Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing)	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases under controlled composting conditions)	ISO 14855-2
20	CHEMICAL- PLASTIC & RESINS	Plastic Products and materials, packaging made from plastics Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing) Compostable Packaging and packaging materials	Carbon Dioxide Evolved Content (by conversion of carbon content of plastic material into gases in soil-aerobic conditions)	ISO 17556
21	CHEMICAL- PLASTIC & RESINS	Plastic Products and materials, packaging made from plastics Plastics or Polymers where plastic film/ sheet or polymers are incorporated (either through lamination, extrusion or mixing) Compostable Packaging and packaging materials	Carbon Dioxide Evolved Content	ASTM D 5988
22	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Ammonical Nitrogen as NH3–N	IS 3025 (PART 34)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Biochemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part–44)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Chemical Oxygen Demand	APHA 5220 B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Conductivity	IS 3025 (PART 14)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	pH	IS 3025 (Part–11)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Total dissolved Solids	IS 3025 (Part–16)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Total Suspended Solids	IS 3025 (Part–17)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Sewage, effluent and waste water	Volatile Solids	IS 3025 (Part–18)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge / Liquid / Slurry	Carbon Dioxide Evolved Content / Oxygen uptake	OECD 301
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange capacity	IS:2720 PART 24
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Determination of effects on reproduction of Eisenia fetida / Eisenia Andrei	ISO 11268–2

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33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Effects of contaminated soil on the emergence and early growth of higher plants	IS 15109, Part–2
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Effects of contaminated soil on the emergence and early growth of higher plants	ISO 11269–2
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	IS 14767
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture Content	IS 2720, (Part–2)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Matter	GOI Soil Testing in India
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS 2720, Part 26
39	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Nitrogen - Modified Kjeldahl Method	GOI Soil Testing in India
40	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Water Holding Capacity	GOI Soil Testing in India
41	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Compost	Terrestrial Plant Test: Seedling Emergence and Seedling Growth Test	OECD 208
42	CHEMICAL- POLLUTION & ENVIRONMENT	Soil, Compost, Sediments	Total Volatile Solids	ISO 11465
43	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Arsenic (as As)	IS 3025, Part–65
44	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Cadmium (as Cd)	IS 3025, Part–65
45	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Chromium (as Cr)	IS 3025, Part–65
46	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Copper (as Cu)	IS 3025, Part–65
47	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Lead (as Pb)	IS 3025, Part–65

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48	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Mercury (as Hg)	IS 3025, Part–65
49	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Nickel (as Ni)	IS 3025, Part–65
50	CHEMICAL- RESIDUES IN WATER	Groundwater/surface water, water for construction purposes, water for industrial purposes, water for swimming pools and Spas, and water from purifiers	Zinc (as Zn)	IS 3025, Part–65
51	CHEMICAL- WATER	Ground water	Chloride as Cl	IS 3025, Part 32
52	CHEMICAL- WATER	Ground water	Conductivity	IS: 3025 PART 14
53	CHEMICAL- WATER	Ground water	pH	IS 3025 (Part–11)
54	CHEMICAL- WATER	Ground water	Total Hardness as CaCO3	IS: 3025 (PART 21)
55	CHEMICAL- WATER	Ground Water	Volatile Fatty Acid (Volatile Organic Matter)	APHA 5560 C