



INTERNATIONAL
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CERTIFICATE OF ACCREDITATION

This is to attest

ENVIRO REMEDIATION AND RESEARCH LABORATORY LLP

GALA NO. 7, GROUND FLOOR, HDIL INDUSTRIAL PARK, BUILDING NO. 14, CHANDANSAR, VIRAR EAST
THANE, MAHARASHTRA, 401303, INDIA

Testing Laboratory TL-1417

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 17, 2026



International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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Accredited to ISO/IEC 17025:2017

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APHA 24th Edition 2310 B	Standard Methods for Examination of Water and Waste Water (Acidity as CaCO_3)
APHA 24th Edition 2320 B	Standard Methods for Examination of Water and Waste Water (Total Alkalinity as CaCO_3)
APHA 24th Edition 2340 C	Standard Methods for Examination of Water and Waste Water (Total Hardness as CaCO_3)
APHA 24th Edition 2540 G	Standard Methods for Examination of Water and Waste Water (Volatile Solids)
APHA 24th Edition 4500-NH ₃ C	Standard Methods for Examination of Water and Waste Water (Ammoniacal Nitrogen as $\text{NH}_3\text{-N}$)
APHA 24th Edition 4500-P C & D	Standard Methods for Examination of Water and Waste Water (Total Phosphate as PO_4)
APHA 24th Edition 5560 C	Standard Methods for Examination of Water and Waste Water (Volatile Acids)
APHA 2540 D	Standard Methods for Examination of Water and Waste Water (Total Suspended Solids)
APHA 2540 E	Standard Methods for Examination of Water and Waste Water (Solids - Fixed and Volatile Solids Ignited at 550 °C)
AS 4736	Biodegradable plastics - Biodegradable plastics suitable for composting and other microbial treatment
AS 5810	Biodegradable plastics - Biodegradable plastics suitable for home composting
ASTM D1293	Standard Test Methods for pH of Water
ASTM D2974	Standard Test Methods for Determining the Water (Moisture) Content, Ash Content, and Organic Material of Peat and Other Organic Soils
ASTM D2980	Standard Test Method for Saturated Density, Moisture-Holding Capacity, and Porosity of Saturated Peat Materials
ASTM D3776	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
ASTM D4972	Standard Test Methods for pH of Soils
ASTM D5208	Standard Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics

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ASTM D5291	Standard Test Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants
ASTM D5338	Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials Under Controlled Composting Conditions, Incorporating Thermophilic Temperatures
ASTM D5511	Standard Test Method for Determining Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions
ASTM D5864	Standard Test Method for Determining Aerobic Aquatic Biodegradation of Lubricants or Their Components
ASTM D5988	Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials in Soil
ASTM D6400	Standard Specification for Labeling of Plastics Designed to be Aerobically Composted in Municipal or Industrial Facilities
ASTM D6691	Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials in the Marine Environment by a Defined Microbial Consortium or Natural Sea Water Inoculum
ASTM D6868	Standard Specification for Labeling of End Items that Incorporate Plastics and Polymers as Coatings or Additives with Paper and Other Substrates Designed to be Aerobically Composted in Municipal or Industrial Facilities
ASTM D6954	Standard Guide for Exposing and Testing Plastics that Degrade in the Environment by a Combination of Oxidation and Biodegradation
ASTM D6988	Standard Guide for Determination of Thickness of Plastic Film Test Specimens
ASTM D7475	Standard Test Method for Determining the Aerobic Degradation and Anaerobic Biodegradation of Plastic Materials under Accelerated Bioreactor Landfill Conditions
ASTM D8410	Standard Specification for Evaluation of Cellulosic-Fiber-Based Packaging Materials and Products for Compostability in Municipal or Industrial Aerobic Composting Facilities
ASTM E1676	Standard Guide for Conducting Laboratory Soil Toxicity or Bioaccumulation Tests with the Lumbricid Earthworm <i>Eisenia Fetida</i> and the Enchytraeid Potworm <i>Enchytraeus albidus</i>
ASTM E1963	Standard Guide for Conducting Terrestrial Plant Toxicity Tests
ASTM F2251	Standard Test Method for Thickness Measurement of Flexible Packaging Material
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Materials
BS EN ISO 15985, ISO 15985 and IS/ISO 15985	Plastics - Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions - Method by analysis of released biogas
DIN 38414	German standard methods for the examination of water, waste water and sludge; sludge and sediments (group S); determination of the amenability to anaerobic digestion (S 8)

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EN 13432, DIN EN 13432, NF EN 13432 and BS EN 13432	Packaging. Requirements for packaging recoverable through composting and biodegradation. Test scheme and evaluation criteria for the final acceptance of packaging
EN 14995	Plastics - Evaluation of compostability - Test scheme and specifications
IS 13933	Method Of Test For Ready Biodegradability Of Surface Active Agents (modified Sturm Test)
IS 14684	Determination of Nitrogen and Nitrogenous Compounds in Soils
IS 15109 (Part 2) and ISO 11269 (Part 2)	Soil Quality - Determination of the Effects of Pollutants on Soil Flora Part 2 Effects of Contaminated Soil on the Emergence and Early Growth of Higher Plants
IS 17899 T	Assessment of Biodegradability of Plastics in Varied Conditions
IS 2720 (Part 2)	Methods of test for soils: Part 2 Determination of water content
IS 3025 (Part 18)	Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater - Part 18 Volatile and Fixed Solids (Total, Filterable and Non-Filterable) at 550°C
IS 3025 (Part 38)	Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater - Part 38 Dissolved Oxygen
IS 3025 (Part 65)	Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater - Part 65 Application of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) - Determination of Selected Elements Including Uranium Isotopes
IS/ISO 14851 and ISO 14851	Determination of the Ultimate Aerobic Biodegradability of Plastic Materials in an Aqueous Medium-Method by Measuring the Oxygen Demand in a Closed Respirometer
IS/ISO 14852 and ISO 14852	Determination of the Ultimate Aerobic Biodegradability of Plastic Materials in an Aqueous Medium-Method by Analysis of Evolved Carbon Dioxide
IS/ISO 14853 and ISO 14853	Plastics - Determination of the Ultimate Anaerobic Biodegradation of Plastic Materials in an Aqueous System - Method by Measurement of Biogas Production
IS/ISO 14855 (Part 2) and ISO 14855 (Part 2)	Determination of The Ultimate Aerobic Biodegradability of Plastic Materials Under Controlled Composting Conditions Method by Analysis of Evolved Carbon Dioxide Part 2 Gravimetric Measurement of Carbon Dioxide Evolved in a Laboratory-Scale Test
IS/ISO 16929 and ISO 16929	Plastics - Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test
IS/ISO 17088 (Annexure C) and ISO 17088 (Annexure C)	Specification for compostable plastics Annexure C: Seedling Emergence and Seedling Growth Test
IS/ISO 17088 (Annexure D) and ISO 17088 (Annexure D)	Specification for compostable plastics Annexure D: Acute Ecotoxic Effects on Earthworm

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IS/ISO 17088 and ISO 17088	Specification for compostable plastics
IS/ISO 17556 and ISO 17556	Plastics - Determination of the ultimate aerobic biodegradability in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved
IS/ISO 20200 and ISO 20200	Plastics - Determination of the degree disintegration of plastic materials under simulated compositing conditions in a laboratory-scale test
ISO 534	Paper and board - Determination of thickness, density and specific volume
ISO 4892 -1	Plastics - Methods of exposure to laboratory light sources Part 1: General guidance and requirements
ISO 4892 -3	Plastics - Methods of exposure to laboratory light sources Part 3: Fluorescent UV lamps
ISO 5663	Water quality - Determination of Kjeldahl nitrogen - Method after mineralization with selenium
ISO 6341	Water quality - Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) - Acute toxicity test
ISO 8192	Water quality - Test for inhibition of oxygen consumption by activated sludge for carbonaceous and ammonium oxidation
ISO 8245	Water quality - Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)
ISO 9439	Water quality - Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium - Carbon dioxide evolution test
ISO 10390	Soil, treated biowaste and sludge – Determination of pH
ISO 10694	Soil Quality- Determination of Organic and Total Carbon after Dry Combustion (Elementary Analysis)
ISO 11260	Soil Quality - Determination of Effective Cation Exchange Capacity and Base Saturation Level using Barium Chloride Solution
ISO 11261	Soil quality - Determination of total nitrogen - Modified Kjeldahl method
ISO 11268 (Part 1)	Soil quality - Effects of pollutants on earthworms Part 1: Determination of acute toxicity to Eisenia fetida / Eisenia andrei
ISO 11268 (Part 2)	Soil quality - Effects of pollutants on earthworms Part 2: Determination of effects on reproduction of Eisenia fetida / Eisenia andrei and other earthworm species
ISO 11465	Sludge and solid environmental matrices - Determination of dry residue or water content and calculation of the dry matter fraction on a mass basis
ISO 11734	Water quality - Evaluation of the "ultimate" anaerobic biodegradability of organic compounds in digested sludge - Method by measurement of the biogas production
ISO 11923	Water quality - Determination of suspended solids by filtration through glass-fibre filters

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ISO 14855 (Part 1) and IS/ISO 14855 (Part 1)	Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions — Method by analysis of evolved carbon dioxide Part 1: General method
ISO 15685	Soil quality - Determination of potential nitrification and inhibition of nitrification - Rapid test by ammonium oxidation
ISO 16221	Water quality - Guidance for determination of biodegradability in the marine environment
ISO 17088 (Annexure E) and IS/ISO 17088 (Annexure E)	Specification for compostable plastics Annexure E: Chronic Ecotoxic Effects on Earthworm
ISO 17088 Annexure B and IS / ISO 17088 Annexure B	Specification for compostable plastics Annexure B: Detection of per - and poly - fluorinated compounds and maximum concentration of other hazardous substance
ISO 18830	Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sandy sediment interface - Method by measuring the oxygen demand in closed respirometer
ISO 19679	Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide
ISO 20136	Leather - Determination of degradability by micro-organisms
ISO 21701	Textiles - Test method for accelerated hydrolysis of textile materials and biodegradation under controlled composting conditions of the resulting hydrolysate
ISO 22403	Plastics - Assessment of the intrinsic biodegradability of materials exposed to marine inocula under mesophilic aerobic laboratory conditions - Test methods and requirements
ISO 22404	Plastics - Determination of the aerobic biodegradation of non-floating materials exposed to marine sediment - Method by analysis of evolved carbon dioxide
ISO 24187	Principles for the analysis of microplastics present in the environment
ISO 4484 Part -2	Textiles and textile products - Microplastics from textile sources Part 2: Qualitative and quantitative analysis of microplastics
NF T51-800	Plastics - Specifications for plastics suitable for home composting
OECD 201	Freshwater Alga and Cyanobacteria, Growth Inhibition Test
OECD 202	Daphnia sp. Acute Immobilisation Test
OECD 203	Fish, Acute Toxicity Test
OECD 207	Earthworm, Acute Toxicity Tests
OECD 208	Terrestrial Plant Test: Seedling Emergence and Seedling Growth Test
OECD 222	Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei)
OECD 301	Ready Biodegradability



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	OECD 301A: DOC Die-Away OECD 301B: CO ₂ Evolution (Modified Sturm Test) OECD 301C: MITI (I) OECD 301D: Closed Bottle OECD 301E: Modified OECD Screening OECD 301F: Manometric Respirometry
OECD 302B	Inherent Biodegradability: Zahn-Wellens / EVPA Test
OECD 306	Biodegradability in Seawater
OECD TG 310	Ready Biodegradability - CO ₂ in sealed vessels (Headspace Test)
PAS 9017	Plastics. Biodegradation of polyolefins in an open-air terrestrial environment. Specification
TAPPI/ANSI T 410	Grammage of paper and paperboard (weight per unit area)
TAPPI/ANSI T 411	Thickness (caliper of paper, paperboard, and combined board)
VDI 4630	Fermentation of organic materials - Characterization of the substrate, sampling, collection of material data, fermentation tests
Mechanical	
IATA	Dangerous Goods Regulations (DGR) Inclusion: Drop Test (Clause 6.1.5.3, Clause 6.5.6.9, Clause 6.6.5.3.4) Leak Proofness Test (Clause 6.1.5.4 and Clause 6.5.6.7) Internal Pressure (Hydraulic) Test (Clause 6.1.5.5 and Clause 6.5.6.8) Stacking Test (Clause 6.1.5.6, Clause 6.5.6.6 and Clause 6.6.5.3.3) Cobb Test (Clause 6.1.4.12.1) Top Lift Test (Clause 6.5.6.5 and Clause 6.6.5.3.2) Bottom Lift (Clause 6.5.6.4 and Clause 6.6.5.3.1) Vibration (Clause 6.5.6.13) Topple test (Clause 6.5.6.11) Righting test (Clause 6.5.6.12) Tear Test (Clause 6.5.6.10)
IMDG	The International Maritime Dangerous Goods (IMDG) Code Inclusion: Drop Test (Clause 6.1.5.3, Clause 6.5.6.9, Clause 6.6.5.3.4) Leak Proofness Test (Clause 6.1.5.4 and Clause 6.5.6.7) Internal Pressure (Hydraulic) Test (Clause 6.1.5.5 and Clause 6.5.6.8) Stacking Test (Clause 6.1.5.6, Clause 6.5.6.6 and Clause 6.6.5.3.3) Cobb Test (Clause 6.1.4.12.1) Top Lift Test (Clause 6.5.6.5 and Clause 6.6.5.3.2) Bottom Lift (Clause 6.5.6.4 and Clause 6.6.5.3.1) Vibration (Clause 6.5.6.13) Topple test (Clause 6.5.6.11) Righting test (Clause 6.5.6.12) Tear Test (Clause 6.5.6.10)
ISO 535	Paper and board - Determination of water absorptiveness - Cobb method

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ISO 2234	Packaging - Complete, filled transport packages and unit loads - Stacking tests using a static load (Method 1)
UN Recommendation	Recommendations on the Transport of Dangerous Goods Inclusion: Drop Test (Clause 6.1.5.3, Clause 6.5.6.9, Clause 6.6.5.3.4) Leak Proofness Test (Clause 6.1.5.4 and Clause 6.5.6.7) Internal Pressure (Hydraulic) Test (Clause 6.1.5.5 and Clause 6.5.6.8) Stacking Test (Clause 6.1.5.6, Clause 6.5.6.6 and Clause 6.6.5.3.3) Cobb Test (Clause 6.1.4.12.1) Top Lift Test (Clause 6.5.6.5 and Clause 6.6.5.3.2) Bottom Lift (Clause 6.5.6.4 and Clause 6.6.5.3.1) Vibration (Clause 6.5.6.13) Topple test (Clause 6.5.6.11) Righting test (Clause 6.5.6.12) Tear Test (Clause 6.5.6.10)

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