

BUREAU OF INDIAN STANDARDS

Program of Work

ETD 43 : Standardization of Environmental Aspects for Electrical and Electronic Products

Scope: To prepare the necessary guidelines, basic standards, in the environmental area, in close cooperation with product committees, which remain autonomous in dealing with the environmental aspects relevant to their products; To liaise with product committees in the elaboration of environmental requirements of product standards in order to foster common technical approaches and solutions for similar problems and thus assure consistency in standards.

Liaison: **IEC TC-111 (P):** *Environmental standardization for electrical and electronic products and systems*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 16197 (Part 1):2014 IEC 62321-1 : 2013 Reviewed In : 2025 IEC 62321-1 : 2013	Determination of certain substances in electrotechnical products: Part 1 introduction and overview	June, 2025	-	Identical under dual numbering
2	IS 16197 (Part 2):2014 IEC 62321-2 : 2013 Reviewed In : 2025 iec 62321-2:2013	Determination of certain substances in electrotechnical products: Part 2 disassembly, disjointment and mechanical sample preparation	June, 2025	-	Identical under dual numbering
3	IS 16197 (Part 3/Sec 1):2014 IEC 62321-3-1 : 2013 Reviewed In : 2025 iec 62321-3-1:2013	Determination of certain substances in electrotechnical products: Part 3 screening: Sec 1 lead, mercury, cadmium, total chromium and total bromine using x - Ray fluorescence spectrometry	June, 2025	-	Identical under dual numbering
4	IS 16197 (Part 3/Sec 2):2023 IEC 62321-3-2:2020 IEC 62321-3-2:2020	Determination of Certain Substances in Electrotechnical Products Part 3 Screening Section 2 Fluorine, Bromine and Chlorine in Polymer and Electronics by Combustion - Ion Chromatography C-IC Heating Devices Using Blankets, Pads or Mattresses and Intended for Heating in Medical Use (First Revision)		-	Identical under dual numbering
5	IS 16197 (Part 3/Sec 3):2024 IEC 62321-3-3: 2021 IEC 62321-3-3: 2021	Determination of Certain Substances in Electrotechnical Products Part 3 Screening Section 3 Polybrominated Biphenyls Polybrominated Diphenyl Ethers and Phthalates in Polymers by Gas		-	Identical under dual numbering

		Chromatography-Mass Spectrometry Using a Pyrolyser/Thermal Desorption Accessory (Py/TD-GC-MS)			
6	IS 16197 (Part 3/Sec 4):2024 IEC 62321-3-4:2023 IEC 62321-3-4:2023	Determination of Certain Substances in Electrotechnical Products Part 3 Screening Section 4 Phthalates in Polymers of Electrotechnical Products by High Performance Liquid Chromatography with Ultraviolet Detector (HPLC-UV) Thin Layer Chromatography (TLC) and Thermal Desorption Mass Spectrometry (TD-MS)		-	Identical under dual numbering
7	IS 16197 (Part 4):2014 IEC 62321-4 : 2013 Reviewed In : 2019 iec 62321-4:2013	Determination of certain substances in electrotechnical products: Part 4 mercury in polymers, metals and electronics by cv - Aas, cv - Afs, icp - Oes and icp - Ms		1	Identical under dual numbering
8	IS 16197 (Part 5):2014 IEC 62321-5 : 2013 Reviewed In : 2025 iec 62321-5:2013	Determination of certain substances in electrotechnical products: Part 5 cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by aas, afs, icp - Oes and icp - Ms	June, 2025	-	Identical under dual numbering
9	IS 16197 (Part 6):2018 IEC 62321-6 : 2015 Reviewed In : 2023 IEC 62321-6 : 2015	Determination of Certain Substances in Electrotechnical Products Part 6 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers in Polymers by Gas Chromatography - Mass Spectrometry (GC-MS)	June, 2023	-	Identical under dual numbering
10	IS 16197 (Part 7/Sec 1):2018 IEC 62321-1 : 2015 Reviewed In : 2023 IEC 62321-7: 2015	Determination of Certain Substances in Electrotechnical Products Part 7 Hexavalent Chromium Section 1 Presence of Hexavalent Chromium (Cr (VI)) in Colourless and Coloured Corrosion-Protected Coatings on Metals by the Colorimetric Method	June, 2023	-	Identical under dual numbering
11	IS 16197 (Part 7/Sec 2):2020 IEC 62321-7-2 : 2017 IEC 62321-7-2:2017	Determination of Certain Substances in Electrotechnical Products Part 7 Hexavalent Chromium Section 2 Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by colorimetric method		-	Identical under dual numbering
12	IS 16197 (Part 8):2020 IEC 62321-8 : 2017 IEC 62321-8:2017	Determination of Certain Substances in Electrotechnical Products Part 8 Phthalates in Polymers by Gas Chromatography - Mass Spectrometry (GC-MS), Gas Chromatography - Mass Spectrometry Using a Pyrolyzer / Thermal Desorption Accessory (-	Identical under dual numbering

		Py-TD-GC-MS)			
13	IS 16197 (Part 9):2024 IEC 62321-9:2021 IEC 62321-9:2021	Determination of Certain Substances in Electrotechnical Products Part 9 Hexabromocyclododecane in Polymers by Gas Chromatography-Mass Spectrometry (GC-MS)		-	Identical under dual numbering
14	IS 16197 (Part 10):2025 IEC 62321-10:2020 IEC 62321-10:2020	Determination of Certain Substances in Electrotechnical Products Part 10 Polycyclic Aromatic Hydrocarbons (PAHs) in Polymers and Electronics by Gas Chromatography-Mass Spectrometry (GC-MS)		-	Identical under dual numbering
15	IS 16197 (Part 12):2025 IEC 62321-12:2023 IEC 62321-12:2023	Determination of Certain Substances in Electrotechnical Products Part 12 Simultaneous Determination Polybrominated Biphenyls Polybrominated Diphenyl Ethers and Phthalates in Polymers by Gas Chromatography-Mass Spectrometry		-	Identical under dual numbering
16	IS 16243:2017 IEC/TR 62476 : 2010 Reviewed In : 2022 IEC/TR 62476 : 2010	Guidance for Evaluation of Products with Respect to Substance-use Restrictions in Electrical and Electronic Products	June, 2022	-	Identical under dual numbering
17	IS 16244:2022 IEC 62430 : 2019 IEC 62430 : 2019	Environmentally conscious design ECD - Principles requirements and guidance (First Revision of IS 16244)		-	Identical under dual numbering
18	IS 16279:2018 IEC/PAS 62545 : 2008 Reviewed In : 2024 IEC/PAS 62545 : 2008	Environmental Information on Electrical and Electronic Equipment (EIEEEE)	October, 2024	-	Identical under dual numbering
19	IS 16584:2017 IEC/TR 62635 : 2012 Reviewed In : 2022 IEC/TR 62635 : 2012	Guidelines for End-of-Life Information Provided by Manufacturers and Recyclers and for Recyclable and for Recyclability Rate Calculation of Electrical and Electronic Equipment	April, 2022	-	Identical under dual numbering
20	IS 16587:2016 IEC/TR 62725 : 2013 Reviewed In : 2024 IEC/TR 62725 : 2013	Analysis of Quantification Methodologies for Greenhouse Gas Emissions for Electrical and Electronic Products and Systems	October, 2024	-	Identical under dual numbering
21	IS 16588:2017 IEC/TR 62726 : 2014 Reviewed In : 2024 IEC/TR 62726 : 2014	Guidance on Quantifying Greenhouse Gas Emission Reductions from the Baseline for Electrical and Electronic Products and Systems	October, 2024	-	Identical under dual numbering
22	IS 16862:2018 IEC PAS 63015 :	Definition of 'Low-Halogen' for Electronic Products	October, 2024	-	Identical under dual numbering

	2016 Reviewed In : 2024 IEC PAS 63015 : 2016				
23	IS 17340:2021 IEC 62542 : 2013 IEC 62542 : 2013	Environmental standardization for electrical and electronic Products and systems Glossary of terms		-	Identical under dual numbering
24	IS 17343:2020 IEC TR 62824 : 2016 IEC 62824 : 2016	Guidance on Material Efficiency Considerations in Environmentally Conscious Design of Electrical and Electronic Products		-	Identical under dual numbering
25	IS 17996:2022 IEC 63000 IEC 63000: 2016+AMD1: 2022 CSV	Technical Documentation for the Assessment of Electrical and Electronic Products with respect to the Restriction of Hazardous Substances		-	Identical under dual numbering
26	IS 18051:2022 IEC 62474:2020(Ed 2.1) IEC 62474:2020(Ed 2.1)	Material declaration for products of and for the electrotechnical industry		-	Identical under dual numbering
27	IS 18053:2022 IEC TR 62474-1:2015 IEC TR 62474-1:2015	Material declaration for products of and for the electrotechnical industry - Part 1: Guidance for the implementation of IEC 62474		-	Identical under dual numbering
28	IS 18818:2025 IEC 63333:2023 IEC 63333:2023	General method for assessing the proportion of reused components in products		-	Identical under dual numbering

Standards under Development

Projects Approved		
SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards		
SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage		
SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage		
SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard		
SI. No.	Doc No.	Title
No Records Found		

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Finalized Draft Indian Standards under Print		
Sl. No.	Doc No.	Title
No Records Found		

Total Published Standards:22 Total Standards Under development:0

Aspect Wise Report
<div>Product : 0</div> <div>Code of Practices : 1</div> <div>Methods of Test : 15</div> <div>Terminology : 2</div> <div>Dimensions : 0</div> <div>System Standard : 0</div> <div>Safety Standard : 0</div> <div>Others : 5</div> <div>Service Specification : 0</div> <div>Process Specification : 0</div> <div>Unclassified : 5</div>

Annexure-I :List of Indian Standards Withdrawn/Superseded		
Sl. No.	IS No. & Year	Title
No Records Found		

Annexure-II :List of Indian Product Standards		
Sl. No.	IS No. & Year	Title
No Records Found		