BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

Draft Indian Standard

Radio Interference Test on High-Voltage Insulators

(Second Revision)

(ICS 29.080.10)

Electrical Insulators and Accessories Sectional Committee, ETD 06	Last date for comments- 30 06 2024

NATIONAL FOREWORD

This draft Indian Standard (Second Revision) which is Identical with IEC 60437: 2023 'Radio Interference Test on High-Voltage Insulators' issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Insulators and Accessories Sectional Committee and approval of the Electrotechnical Division Council.

This Standards was originally Published in 1976 and Subsequently Revised in 2018. The First Revision was based on IEC 60437: 1997. The Second Revision of this standard has been undertaken to align with the latest version of IEC 60437: 2023.

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
IEC 60060-1: 2010, High-voltage test techniques – Part 1:	IS 2071 (Part 1) : 2016/ IEC 60060-1 : 2010 High-voltage Test	Identical

General definitions and test requirements	Techniques Part 1 General Definitions and Test Requirements (*third revision*)	
IEC 60137: 2017, Insulated bushings for alternating voltages above 1000 V	IS/IEC 60137 : 2017 Insulated Bushings for Alternating Voltages above 1000 V	Identical
IEC 60168: 1994, Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V	IS/IEC 60168 : 2000 Tests on Indoor and Outdoor Post Insulators of Ceramic Material or Glass for Systems with Nominal Voltages Greater than 1000 V	Identical
IEC 60383-1: 2023, Insulators for overhead lines with a nominal voltage above 1000 V – Part 1: Ceramic or glass insulator units for a.c. systems – Definitions, test methods and acceptance criteria	IS/IEC 60383-1: 2023 Insulators for Overhead Lines with a Nominal Voltage above 1000 V Part 1 Ceramic or Glass Insulator Units for a.c Systems — Definitions, Test Methods and Acceptance Criteria (*first revision*)	Identical
IEC 60383-2: 1993, Insulators for overhead lines with a nominal voltage above 1 000 V – Part 2: Insulator strings and insulator sets for a.c. systems – Definitions, test methods and acceptance criteria	IS/IEC 60383-2 : 1993 Insulators for Overhead Lines with a Nominal Voltage Above 1 000 V Part 2 Insulator Strings and Insulator Sets for a.c. Systems — Definitions, Test Methods and Acceptance Criteria	Identical
IEC 61109: 2008, Insulators for overhead lines – Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V – Definitions, test methods and acceptance criteria	IS 16784 : 2018/ IEC 61109 : 2008 Insulators for Overhead Lines — Composite Suspension and Tension Insulators for a.c. Systems with a Nominal Voltage Greater Than 1 000 V — Definitions, Test Methods and Acceptance Criteria	Identical
IEC 61462: 2007, Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V – Definitions, test methods, acceptance criteria and design recommendations	IS/IEC 61462 : 2007 Composite Hollow Insulators — Pressurized and Unpressurized Insulators for Use in Electrical Equipment with Rated Voltage Greater than 1 000 V — Definitions Test Methods, Acceptance Criteria and Design Recommendations	Identical
CISPR 16-1-1: 2019, Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus	IS 10052 (Part 1/Sec 1) : 2021/ CISPR 16-1-1 : 2019 Radio Disturbance and Immunity Measuring Apparatus and Methods — Specification Part 1 Radio Disturbance and Immunity Measuring Apparatus Section 1 Measuring apparatus (*forth revision*)	Identical
CISPR TR 18-2: 2017, Radio	IS 12233 (Part 2) : 2021/ CISPR TR	Identical

interference characteristics of overhead power lines and high-voltage equipment – Part 2: Methods of measurement and procedure for determining limits	18-2 : 2017 Radio Interference Characteristics of Overhead Power Lines and High-Voltage Equipment Part 2 Methods of Measurement and Procedure for Determining Limits (*second revision*)	

The technical committee has reviewed the provision of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

International Standard	*Title*
IEC 61952: 2008	Insulators for overhead lines – Composite line post insulators for A.C. systems with a nominal voltage greater than 1 000 V – Definitions, test methods and acceptance criteria
IEC 62231:2006	Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV – Definitions, test methods and acceptance criteria

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 60437: 2023 or kindly contact:

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