



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS



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**DRAFTS IN WIDE
CIRCULATION**

Document Despatch Advice

REFERENCE	Date
ETD 06/ T- 97	20-09-2018

TECHNICAL COMMITTEE ETD 06

ADDRESSED TO:

1. All Members of Electrical Insulators and Accessories Sectional Committee, ETD 06 ;
2. All Members of Electrotechnical Division Council; and
3. All other Interested.

Dear Sir(s),

Please find enclosed a copy each of the following draft Indian Standards:

DOC NO.	TITLE
ETD 06 (13097)	Artificial pollution Tests on High-Voltage Ceramic and Glass Insulators to be Used on D.C. Systems

Kindly examine the draft standards and forward your views stating any difficulties which you are likely to experience in your business or profession, if these are finally adopted as Indian Standards.

Comments, if any, may please be made in the format given overleaf and mailed to the undersigned.

Last date for comments: **19-10-2018.**

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case of comments of technical in nature are received then it may be finalized either in consultation with the Chairman, Sectional Committee or referred to the Sectional Committee for further necessary action, if so desired by the Chairman, Sectional Committee.

It may kindly be noted that the technical contents of the documents has not been enclosed as these are identical with the corresponding IEC standards. For details, please refer to the corresponding IEC publication as mentioned in the respective National Forewords or kindly contact the undersigned.

Thanking you,
Yours faithfully

(Rajeev Sharma)
Sc 'E' & Head (Electrotechnical)
Email: eetd@bis.org.in

Encl: As above



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व्यापक परिचालन में मसौदे

प्रलेख प्रेषण संज्ञापन

तकनीकी समिति : ईटीडी 06

प्रेषती :

1. ईटीडी 06 के सभी सदस्य
2. विद्युत तकनीकी विभाग परिषद के सभी सदस्य तथा
3. रुचि रखने वाले अन्य सभी निकाय

महोदय,

कृपया निम्नलिखित मसौदे की एक प्रति संलग्न है :

संदर्भ ईटीडी	दिनांक
ईटीडी 06/ टी- 97	20-09-2018

प्रलेख	शीर्षक
ईटीडी 06 (13097)	डी सी प्रणालियों पर प्रयुक्त किये जाने वाले उच्च वोल्टता सेरामिक एवं ग्लास उष्मारोधकों सम्बन्धी कृत्रिम प्रदूषणपरीक्षण

शीर्षक

कृपया इन मसौदों का अवलोकन करें और अपनी सम्मतियों यह बताते हुए भेजें कि अंततः यदि यह मानक के रूप में प्रकाशित हो जाए तो इस पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती हैं ।

सम्मतियों भेजने की अंतिम तारीख **19-10-2018**.

सम्मतियों यदि कोई हो तो कृपया अगले पृष्ठ पर दिए पत्र में अधोहस्ताक्षरी को उपरिलिखित पते पर भेज दें । यदि कोई सम्मति प्राप्त नहीं होती अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दिया जाएगा । यदि कोई सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिए विषय समिति को भेजे जाने के बाद प्रलेख को अंतिम रूप दे दिया जाएगा

कृपया नोट करें कि मसौदों का तकनीकी विषय वस्तु संलग्नित नहीं किया गया है क्योंकि ये मसौदे आई. ई. सी. मानकों के समरूप हैं । विस्तृत ब्यौरे के लिए कृपया संबंधित राष्ट्रीय प्राक्कथन में उल्लिखित आई. ई. सी. प्रकाशन पढ़ें अथवा अधोहस्ताक्षरित को संपर्क करें ।

धन्यवाद,

भवदीय,

(राजीव शर्मा)

प्रमुख (विद्युत तकनीकी)

Draft Indian Standard

Electrical Insulators and Accessories Sectional Committee, ETD 06

NATIONAL FOREWORD

This draft Indian Standard which is identical with IEC 61245 ‘Artificial pollution Tests on High-Voltage Ceramic and Glass Insulators to be Used on D.C. Systems’ issued by the International Electrotechnical Commission (IEC) would be adopted by the Bureau of Indian Standards on the recommendations of the Electrical Insulators and Accessories Sectional Committee, ETD 06 and approval of the Electrotechnical Division Council.

The text of 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’ appear referring to this standard, they should be read as ‘Indian Standard’; and
- 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 certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their places are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC TS 60815-1, Selection and dimensioning of high-voltage insulators intended for use in polluted conditions – Part 1: Definitions, information and general principles	IS 16683 (Part 1) : 2018 Selection and Dimensioning of High Voltage Insulators Intended for Use in Polluted Conditions: Part 1 Definitions Information and General Principles	Identical

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard.

IEC Number	Title
IEC 60060-1	High-voltage test techniques – Part 1: General definitions and test requirements

IEC 60060-2	High-voltage test techniques – Part 2: Measuring systems
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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 : 1960 'Rules for rounding of numerical values (*revised*)'.

SCOPE

This technical specification is applicable for the determination of the d.c. withstand characteristics of ceramic and glass insulators to be used outdoors and exposed to polluted atmospheres, on d.c. systems with the highest voltage of the system greater than $\pm 1\ 000\text{ V}$.

These tests are not applicable to polymeric insulators, to greased insulators or to special types of insulators (e.g. insulators with semiconducting glaze or covered with any organic insulating material).

The object of this technical specification is to prescribe procedures for artificial pollution tests applicable to insulators for overhead lines, substations and traction lines and to bushings.

It may also be applied to hollow insulators with suitable precautions to avoid internal flashover. In applying these procedures to apparatus incorporating hollow insulators, the relevant technical committees should consider their effect on any internal equipment and the special precautions which may be necessary.