



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS



मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली - 110002  
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi-110002

दूरभाष  
Phones 2323 0131  
2323 3375  
2323 9402

Website : www.bis.org.in  
e-mail :

तार : मानकसंस्था  
Grams : Manaksanstha

**DRAFTS IN WIDE  
CIRCULATION**

**Document Despatch Advice**

REFERENCE	Date
ETD 06/ T- 98	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 (13098)	Guidance on the measurement of hydrophobicity of insulator surfaces

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 'F' & Head (Electrotechnical)  
Email: [eetd@bis.org.in](mailto:eetd@bis.org.in)

Encl: As above



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS



मानक भवन, 9 बहादुरशाह ज़फ़र मार्ग, नई दिल्ली - 110002  
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi-110002

दूरभाष 2323 0131  
Phones 2323 3375  
2323 9402

Website : www.bis.org.in  
e-mail :

तार : मानकसंस्था  
Grams : Manaksanstha

## 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,

कृप्या निम्नलिखित मसौदे की एक प्रति संलग्न है :

संदर्भ ईटीडी	दिनांक
ईटीडी 06/ टी- 98	20-09-2018

प्रलेख	शीर्षक	शीर्षक
ईटीडी 06 (13098)	उष्मारोधक सतहों के हयड्रोफोबिसिटी मापन के लिए मार्गदर्शिका	

कृप्या 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 कृप्या 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 62073 'Guidance on the measurement of hydrophobicity of insulator surfaces' 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.

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**

The methods described in this technical specification can be used for the measurement of the hydrophobicity of the shed and housing material of composite insulators for overhead lines, substations and equipment or ceramic insulators covered or not covered by a coating. The obtained value represents the hydrophobicity at the time of the measurement.

The object of this technical specification is to describe three methods that can be used to determine the hydrophobicity of insulators. The determination of the ability of water to wet the surface of insulators may be useful to evaluate the condition of the surface of insulators in service, or as part of the insulator testing in the laboratory.