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तार: मानकसंस्था  
Grams: Manaksanstha

व्यापक परिचालन मे मसौदा

प्रलेख प्रेषण संज्ञापन

संदर्भ

टी ई डी १८/ टी-88

दिनांक

13.07.2018

इनलैंड, हारबर क्राफ्ट और फिशिंग वेसल्स विषय समिति, टी ई डी १८

क) परिवहन इंजीनियरिंग विभाग परिषद (प इ वि प) के सभी सदस्यों को ।

ख) इनलैंड, हारबर क्राफ्ट और फिशिंग वेसल्स विषय समिति, टी ई डी १८ के सभी सदस्यों को ।

ग) अन्य सभी रुचि रखने वाले सभी निकाय ।

प्रिय महोदय/महोदया,

आपके अवलोकन हेतु निम्नलिखित प्रलेख संलग्न है:

प्रलेख संख्या	विषय
टी ई डी १८ (१२८९४)	छोटी नौका - पतवार निर्माण एवं स्कैंटलिंग - भाग 8: दिक् नियंत्रक (ISO 12215-8:2009 का अभिन्न अभिग्रहण)

प्रासंगिक आईएसओ विशिष्टता पर आधारित उपरोक्त दस्तावेज की तकनीकी सामग्री टी ई डी से अनुरोध पर प्राप्त किये जा सकते हैं ।

कृपया उपरोक्त मानक मसौदे का अवलोकन कर अपनी सम्मतिर्यो यह बताते हुए भेजे कि यदि अंततः यह भारतीय मानक के रूप में प्रकाशित हो जाए तो इस पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती हैं ।

**सम्मतिर्यो भेजने की अंतिम तिथि : 15.09.2018**

सम्मतिर्यो यदि कोई हो, तो नीचे दिए गए प्रारूप में लिख कर, उपरिलिखित पते पर अधोहस्ताक्षरी को भेजें ।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबन्धी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दिया जायेगा । यदि कोई सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के



**भारतीय मानक ब्यूरो**  
**BUREAU OF INDIAN STANDARDS**

मानक भवन, ९ बहादुरशाह ज़फर मार्ग, नई दिल्ली ११०००२  
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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 जायेगा ।

**आपसे अनुरोध है की संबंधित हितधारकों को यह प्रसार अवश्य करे जो इस ड्राफ्ट मसौदा पर जांच एवं टिप्पणी करने के लिए सक्षम है।**

यह प्रलेख भारतीय मानक ब्यूरो की वैबसाइट [www.bis.org.in](http://www.bis.org.in) पर भी उपलब्ध है ।

धन्यवाद,

भवदीय,

(आर आर सिंह)

वैज्ञानिक 'ई' एवं प्रमुख

(परिवहन इंजिनियरिंग विभाग)

प्रति : उपरिलिखित

*नोट : कृपया ध्यान दें कि यह मसौदा आपकी सम्मतियों हेतु है तथा इसका प्रयोग किसी अन्य उद्देश्य के लिए नहीं करे क्योंकि यह कॉपीराइट के तहत है ।*



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DRAFT IN WIDE  
CIRCULATION

DOCUMENT DISPATCH ADVICE

Our Ref:	Date
TED 18/ T- 88	13.07.2018

**INLAND, HARBOUR CRAFTS AND FISHING VESSELS SECTIONAL COMMITTEE, TED 18**

1. All members of Transport Engineering Division Council, TEDC.
2. All members of Inland, Harbour Crafts and Fishing Vessel Sectional Committee, TED18.
3. All others interested.

Dear Sir/Madam,

Please find enclosed the following document:

Doc No.	Title
TED 18 (12894 )W	Small craft -- Hull construction and scantlings -- Part 8: Rudders (Identical adoption of ISO 12215-8:2009)

The technical contents of the above document corresponding to relevant ISO specification can be obtained from TED on request.

Kindly examine this draft standard and forward your views stating any difficulties which you are likely to experience in your business or profession, if this is finally adopted as Indian Standard.

**Last date for comments: 15.09.2018**

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

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 is also requested to further disseminate this to other stakeholders concerned to enable them to examine this draft and send comments thereon, if any.**

The above document is also hosted on BIS website [www.bis.org.in](http://www.bis.org.in).



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BUREAU OF INDIAN STANDARDS

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Grams: Manaksanstha

Thanking you,

yours faithfully,

Encl: As above.

(R R Singh)  
Scientist 'E' & Head  
Transport Engineering Department

*Note: Please note that the document attached is for your comments only and shall not be used for any other purpose as it is under copy right*

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**For Comments Only**

*भारतीय मानक मसौदा*  
**छोटी नौका – पतवार निर्माण एवं स्कैंटलिंग – भाग ८: दिक् नियंत्रक**  
(आई एस ओ १२२१५-८:२००९ का अधिग्रहण)

*Draft Indian Standard*  
**SMALL CRAFT – HULL CONSTRUCTION AND SCANTLINGS –**  
**PART 8: RUDDERS**  
(Adoption of ISO 12215-8:2009)  
ICS 47.080

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**Last date for receipt of  
comments is 15 September 2018**

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Inland Harbour Crafts and Fishing Vessels Sectional Committee, TED 18

**NATIONAL FOREWORD**

This draft Indian Standard which is identical with ISO 12215-8 : 2009 ‘Small craft – Hull construction and scantlings – Part 8: Rudders’ issued by the International Organization for Standardization (ISO), shall be considered for adoption by the Bureau of Indian Standards, on the recommendation of the Inland, Harbour Crafts and Fishing Vessels Sectional Committee and after approval of the Transport Engineering Divisional Council.

This standard, IS 16183 has various parts under general title ‘Small craft – Hull construction and scantlings’. Other parts published in this series are:

- Part 2 Materials: Core materials for sandwich construction, embedded materials  
Part 3: Materials: Steel, aluminium alloys, wood, other materials

Further, the Committee has decided to formulate following new parts of IS 16183 which are under preparation:

- Part 1 Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate  
Part 4: Workshop and Manufacturing  
Part 6: Structural arrangements and details  
Part 9: Sailing craft appendages

Annex A to Annex C form normative parts of this standard. Annex D to Annex F of this standard are for information only.

The text of ISO Standard has been proposed to be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies 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’.
- 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 the following International Standard for which Indian Standard also exists. The corresponding Indian Standard, which is to be substituted in its place, is listed below along with its degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 8666 Small craft — Principal data	TED 18 (12890) Small craft — Principal data ( <i>under preparation</i> )	<i>Identical</i>

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

<i>International Standard</i>	<i>Title</i>
ISO 12215-5:2008	Small craft — Hull construction and scantlings — Part 5: Design pressures for monohulls, design stresses, scantlings determination

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

## **Introduction**

The reason underlying the preparation of this part of International Standard ISO 12215 is that standards and recommended practices for loads on the hull and the dimensioning of small craft differ considerably, thus limiting the general worldwide acceptability of craft. This part of ISO 12215 has been set towards the lower boundary range of common practice.

The objective of this part of ISO 12215 is to achieve an overall structural strength that ensures the watertight and weathertight integrity of the craft.

The working group considers this part of ISO 12215 to have been developed applying present practice and sound engineering principles. The design loads and criteria of this part of ISO 12215 may be used with the scantling determination equations of this part of ISO 12215 or using equivalent engineering methods such as continuous beam theory, matrix-displacement method and classical lamination theory, as indicated within.

Considering future development in technology and craft types, and small craft presently outside the scope of this part of ISO 12215, provided that methods supported by appropriate technology exist, consideration may be given to their use as long as equivalent strength to this part of ISO 12215 is achieved.

The dimensioning according to this part of ISO 12215 is regarded as reflecting current practice, provided the craft is correctly handled in the sense of good seamanship and equipped and operated at a speed appropriate to the prevailing sea state.

## Scope

This part of ISO 12215 gives requirements on the scantlings of rudders fitted to small craft with a length of hull,  $L_H$ , of up to 24 m, measured according to ISO 8666. It applies only to monohulls.

This part of ISO 12215 does not give requirements on rudder characteristics required for proper steering capabilities.

This part of ISO 12215 only considers pressure loads on the rudder due to craft manoeuvring. Loads on the rudder or its skeg, where fitted, induced by grounding or docking, where relevant, are out of scope and need to be considered separately.

NOTE Scantlings derived from this part of ISO 12215 are primarily intended to apply to recreational craft including charter craft.

Note: The technical content of the document has not been enclosed as this is identical with the corresponding ISO standard.

**‘FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 12215-8:2009  
or CONTACT:**

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