



भारतीय मानक ब्यूरो

उपभोक्ता) मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार (

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public distribution, Govt. of India)

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व्यापक परिचलन मे मसौदा

तकनीकी समिति एम एच डी 05

पाने वालो के नाम

- नेत्र उपकरण एवम यंत्र विषय समिति, एम.एच.डी 05 के सभी सदस्य |
- चिकित्सा उपकरण एवम अस्पताल आयोजना विभाग परिषद |
- अन्य सभी रुचि रखने वाले |

प्रिय महोदय/महोदया,

निम्नलिखित प्रलेख सलग्र है :

प्रलेख सख्या : एम एच डी 05 (12430) आ एस/आई एस ओ 10938 : 2016 [11.040.70]

शीर्षक : नेत्र प्रकाशिकी — दृश्य तीव्रता माप के लिए प्रदर्शित चार्ट — मुद्रित, अनुमानित और इलेक्ट्रॉनिक
(पहला पुनरीक्षण)

कृप्या इन मानक मसौदे का अवलोकन करे और अपनी सम्मतिया यह बताते हुए भेजे कि अंततः यदि ये मानक राष्ट्रीय मानक के रूप में प्रकाशित हो जाये तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती है |

सम्मतिया यदि कोई हो तो कृप्या अगले पृष्ठ पर दिये गये पत्र में अधोहस्ताक्षरी को उपरिलिखित पते पर भेज दे

सम्मतिया भेजने कि अंतिम तिथि : **22-03-2018**

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दे दिया जायेगा | यदि कोई सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिये विषय समिति को भेजे जाने के बाद प्रलेख को अंतिम रूप दे दिया जायेगा |

धन्यवाद

भवदीय

(प्रकाश बचानी)

वैज्ञानिक 'ई' एवं प्रमख (एम एच डी)

संलग्नक : उपरोक्त

ई – मेल 1) hmhd@bis.org.in;

Note: Pl also send copy to: sempal@bis.org.in 2) mhd@bis.org.in

फोन : 011-23230910



भारतीय मानक ब्यूरो

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**DRAFTS IN
WIDE CIRCULATION**

DOCUMENT DESPATCH ADVICE

Ref	Date
MHD 05/ T- 120	23/02/2018

TECHNICAL COMMITTEE: MHD 05

ADDRESSED TO:

- All members of Ophthalmic Instruments and Appliances Sectional Committee, MHD 05
- All Members of Medical Equipment and Hospital Planning Division Council, (MHDC)
- All others interested

Dear Madam/Sir(s),

Please find enclosed the following documents:

DOC NO: MHD 05 (12430) IS/ISO 10938 : 2016] [11.040.70]

TITLE : Ophthalmic optics — Chart displays for visual acuity measurement — Printed, projected and electronic (*first revision*)

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 National Standard.

Last date for comments: **22/03/2018**

Comments if any, may please be made in the format indicated and mailed to the undersigned at the above address. 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 comments of technical 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.

Thanking you,

Yours sincerely,

(Prakash Bachani)
Scientist 'E' & Head (MHD)

Encl: As above

email: 1) hmhd@bis.org.in;

Note: Pl also send copy to: 2) sempal@bis.org.in 3) mhd@bis.org.in

Phone: 011-23230910

Draft for Comments only

(Not to be reproduced without permission of BIS or used as standard)
Last date of receipt of comments is **22-03-2018**

Doc No.: MHD 05 (12430)
IS/ISO 10938 : 2016

भारतीय मानक मसौदा
नेत्र प्रकाशिकी — दृश्य तीव्रता माप के लिए प्रदर्शित चार्ट — मुद्रित,
अनुमानित और इलेक्ट्रॉनिक
(पहला पुनरीक्षण)
Draft Indian Standard
Ophthalmic optics — Chart displays for visual acuity
measurement — Printed, projected and electronic
(*First Revision*)

ICS 01.040.11; 11.040.10

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110002

February 2018

Price Group

Ophthalmic Instruments and Appliances Sectional Committee, MHD 05

NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 10938 : 2016 ‘Ophthalmic optics — Chart displays for visual acuity measurement — Printed, projected and electronic’ issued by the International Organization for Standardization (ISO) to be adopted by the Bureau of Indian Standards on the recommendation of Ophthalmic Instruments and Appliances Sectional Committee, and approval of the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 2014 identical to ISO 10938 : 1998 ‘Ophthalmic instruments — Chart projectors’. Consequent upon revision of ISO 10938 : 1998 as ISO 10938 : 2016 ‘Ophthalmic optics — Chart displays for visual acuity measurement — Printed, projected and electronic’ revision of this standard has been taken up to align with the latest ISO Standard.

The text of ISO 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 the decimal marker while in Indian Standards, the current practice is to use a point (.) as a decimal marker.

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

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 8596 Ophthalmic optics — Visual acuity testing — Standard optotype and its presentation	IS/ISO 8596 : 2009 Ophthalmic Optics — Visual acuity twisting — Standard optotype and its presentation	Identical with ISO 8596 : 2009

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:

<i>International Standard</i>	<i>Title</i>
ISO 15004-1	Ophthalmic instruments — Fundamental requirements and test methods — Part 1: General requirements applicable to all ophthalmic instruments

The standard also makes a reference to the BIS Certification Marking of the product. Details of which is given in National Annex A.

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 or analysis, shall be rounded off in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

NATIONAL ANNEX A (National Foreword)

A-1 BIS CERTIFICATION MARKING

A-1.1 The product may also be marked with the Standard Mark.

A-1.1.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Note: The technical content of the draft is not available on website. For details please contact:

Head (MHD)

Bureau of Indian Standards

Manak Bhawan

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