भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

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व्यापक परिचालन मसौदा

हमारा संदर्भ : सीईडी 43/टी-118 **09 नवम्बर 2022**

तकनीकी समिति : मृदा एवं नींव इंजीनियरी विषय समिति, सीईडी 43

प्राप्तकर्ता :

1 सिविल इंजीनियरी विभाग परिषद, सीईडीसी के सभी सदस्य
2 मृदा एवं नींव इंजीनियरी विषय समिति, सीईडी 43 के सभी सदस्य
3 रूचि रखने वाले अन्य निकाय।

महोदया/महोदय,

निम्नलिखित मसौदा संलग्न है:

प्रलेख संख्या	शीर्षक
सीईडी 43 (21162)WC	**मृदा के रैखिक संकुचन के निर्धारण के लिए सांचा – विशिष्टि का भारतीय मानक मसौदा (IS 12979 *का पहला पुनरीक्षण*)** **(ICS No. 93.020; 13.080.20)**

कृपया इस मसौदे का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजे कि यह मसौदा प्रकाशित हो तो इस पर अमल करने में, आपको व्यवसाय अथवा कारोबार में क्या कठिनाइयॉ आ सकती हैं।

सम्मतियॉ भेजने की अंतिम तिथि: 10 दिसम्बर 2022

सम्मति यदि कोई हो तो कृपया अधोहस्ताक्षरी को ई मेल द्वारा **madhurima@bis.gov.in** पर या उपरलिखित पते पर, संलग्न फोर्मेट में भेजें।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दे दिया जाएगा। यदि 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।

यह प्रलेख भारतीय मानक ब्यूरो की वैबसाइट **www.bis.gov.in** पर भी उपलब्ध हैं।

धन्यवाद।

भवदीय

ह/-

(अरुण कुमार एस.)
वैज्ञानिक 'ई'/निर्देशक और प्रमुख (सिविल इंजीनियरिंग)

सलंग्न: उपरिलिखित

भारतीय मानक ब्यूरो
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DRAFT IN WIDE CIRCULATION

DOCUMENT DESPATCH ADVICE

Reference	Date
CED 43/T-118	**09 November 2022**

TECHNICAL COMMITTEE:

SOIL AND FOUNDATION ENGINEERING SECTIONAL COMMITTEE, CED 43

ADDRESSED TO:

1. All Members of Civil Engineering Division Council, CEDC
2. All Members of Soil and Foundation Engineering Sectional Committee, CED 43
3. All others interests

Dear Madam/Sir,

Please find enclosed the following draft:

Doc. No.	Title
CED 43 (21162)WC	**Draft Indian Standard Mould for determination of linear shrinkage of soil — Specification (*First Revision* of IS 12979) (ICS No. 93.020; 13.080.20)**

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

Last Date for comments: 10 December 2022

Comments if any, may please be made in the enclosed format and emailed at **madhurima@bis.gov.in** or sent 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, 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.

The document is also hosted on BIS website **www.bis.gov.in**.

Thanking you,

Yours faithfully,

Sd/-

(Arun Kumar S.)
Sc. 'E'/Director & Head (Civil Engg.)

Encl: As above

FORMAT FOR SENDING COMMENTS ON BIS DOCUMENTS

(Please use A4 size sheet of paper only and type within fields indicated. Comments on each clause/subclause/table/fig etc. be started on a fresh box. Information in column 5 should include reasons for the comments, and those in column 4 should include suggestions for modified wording of the clauses when the existing text is found not acceptable. Adherence to this format facilitates Secretariat's work) {Please e-mail your comments to madhurima@bis.gov.in }

DOC. NO.	**Doc: CED 43 (21162)WC**
TITLE	**Draft Indian Standard Mould for determination of linear shrinkage of soil — Specification (*First Revision of* IS 12979)** **(ICS No. 93.020; 13.080.20)**
LAST DATE OF COMMENTS	**10 December 2022**
NAME OF THE COMMENTATOR/ ORGANIZATION	_____

Sl No. (1)	Clause/Sub-clause/Para No. (2)	Comments/Suggestions (3)	Modified Wording of the Clause (4)	Reasons/ Justifications for the Proposed Changes (5)

DOC: CED 43 (21162)WC
November 2022

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

(Not to be reproduced without the permission of BIS or used as a Standard)

Draft Indian Standard

MOULD FOR DETERMINATION OF LINEAR SHRINKAGE OF SOIL — SPECIFICATION

(*First Revision of* IS 12979)

Soil and Foundation Engineering Sectional Committee, CED 43	Last date of Comments: **10 December 2022**

Soil and Foundation Engineering Sectional Committee, CED 43

FOREWORD

(*Formal clauses to be added later*)

There is a series of standards on methods of testing of soils. It has been recognized that reliable and inter-comparable test results can be obtained only with the standard testing equipment capable of giving that desired level of accuracy. With this objective, a series of specifications covering the requirements of equipment used for testing soils have been published to encourage their development and manufacture in the country.

The equipment covered in this standard is used as a part of the apparatus for determination of the linear shrinkage of remoulded soils as covered in IS 2720 (Part 20) : 1992 'Methods of test for soils : Part 20 Determination of linear shrinkage (*first revision*)'.

This standard was first published in 1990. The present revision has been taken up with a view to incorporating the modifications found necessary as a result of experience gained in the use of this standard. Also, in this revision, the standard has been brought into latest style and format of Indian Standards, and references to Indian Standards, wherever applicable have been updated. The other major modifications incorporated in this revision of the standard are given below:

a) The mould with end plates welded on to the body of the mould has been included;
b) One dimension of body of existing moulds with end plates screwed to the body has been revised;
c) Marking clause has been modified to include type of mould and replace batch number by date of manufacture as per the actual practice; and
d) BIS certification marking clause has been modified to align with the revised *Bureau of Indian Standards Act, 2016.*

This standard contributes to the Sustainable Development Goal 9 - Industry, Innovation and Infrastructure: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

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 : 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.

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

Draft Indian Standard

MOULD FOR DETERMINATION OF LINEAR SHRINKAGE OF SOIL — SPECIFICATION

(*First Revision of* IS 12979)

Soil and Foundation Engineering Sectional Committee, CED 43	Last date of Comments: **10 December 2022**

1 SCOPE

This standard covers general requirements, materials and dimensions for moulds used as part of the apparatus for the determination of linear shrinkage of remoulded soils.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	*Title*
292 : 1983	Leaded brass ingots and castings (*second revision*)
2102 (Part 1) : 1993	General tolerances: Part 1 tolerances for linear and angular dimensions without individual tolerance indications (*third revision*)

3 TYPES AND DESIGNATION

The mould shall be of one of the following types:

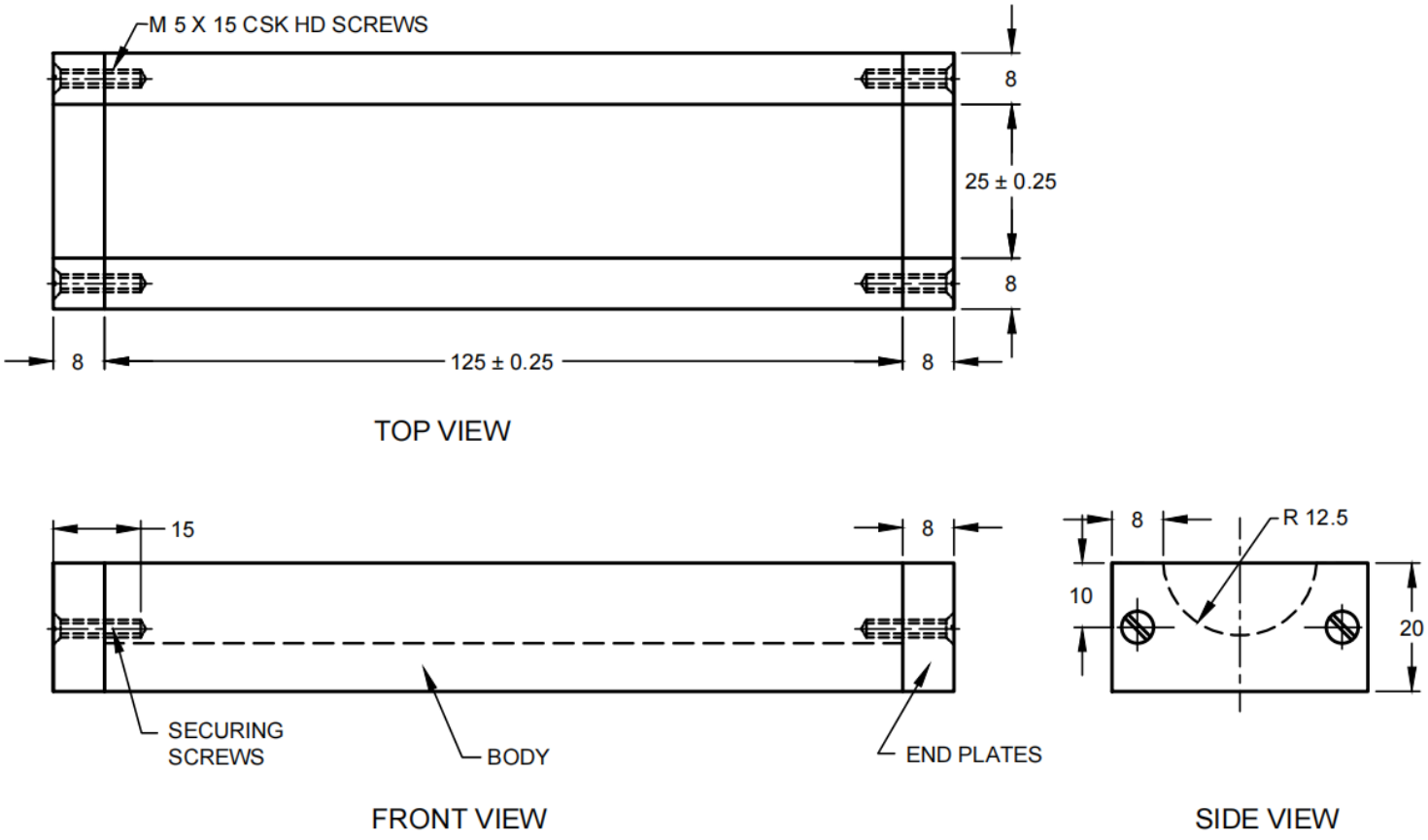
a) Mould with end plates (2 No.) attached to the body with securing screws (4 No.) (*see* Fig. 1) to be designated by MS; and
b) Mould with end plates welded on the body (*see* Fig. 2) to be designated by MW.

4 MATERIALS

The materials for construction of the different component parts of the mould, namely, body, plates and screws shall conform to IS 292.

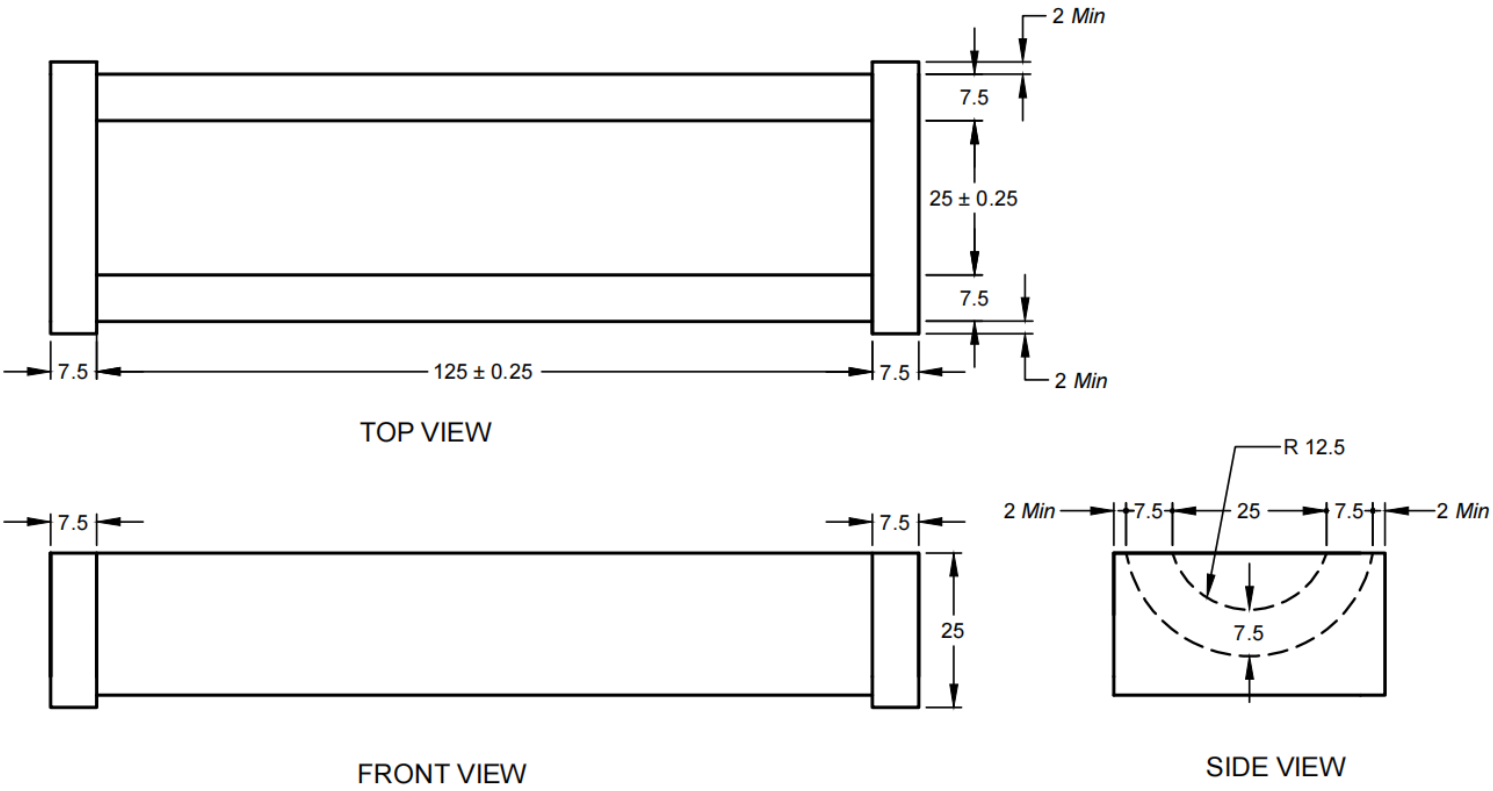
5 DIMENSIONS

The dimensions of the component parts of the MS type moulds shall be as detailed in Fig. 1 and those for MW types shall be as detailed in Fig. 2. The tolerances on the dimensions wherever not mentioned shall be as given in IS 2102 (Part 1) and shall be medium class.



All dimensions in millimetres.

FIG. 1 MS TYPE MOULD FOR LINEAR SHRINKAGE



All dimensions in millimetres.

FIG. 2 MW TYPE MOULD FOR LINEAR SHRINKAGE

6 MARKING

6.1 The following information shall be clearly and indelibly marked on each mould:

a) Name of the manufacturer or his registered trade-mark or both;
b) Type of moulds (MS or MW); and
c) Date of manufacture.

6.2 BIS Certification Marking

The product conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act,* 2016 and the Rules and Regulations framed thereunder, and the product may be marked with the Standard Mark.