

**BUREAU OF INDIAN STANDARDS**

**AGENDA**

**Clay and Stabilized Soil Products for Construction Sectional Committee, CED 30** : **Twenty Fifth Meeting**  
**Thursday, 07-November-2024** : **1000**  
**Venue** : **Hybrid Meeting (The National Institute of Engineering, Mysore, Karnataka, India)**

Through WEBEX Video Conference [Click here to join meeting](#)

Meeting link:

<https://bismanak.webex.com/bismanak/j.php?MTID=m94ce30c05c785b15bc07379a4740a555>

Meeting ID: 2519 017 1998

Password: ced30@

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**CHAIRPERSON:** Prof B. V. V. Reddy  
**MEMBER SECRETARY:** Divya S

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**Item 0 OPENING REMARKS BY THE CHAIRMAN**

**Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

The Minutes of the Twenty Fourth Meeting of Clay and Stabilized Soil Products for Construction Sectional Committee, CED 30 held on 06 August 2024 at New Delhi was circulated vide BIS DG letter No. CED 30/2.24 dated 19 August 2024. No comments were received.

The Committee may **CONFIRM** the Minutes as circulated.

**Item 2 COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1** The present composition of the Sectional Committee as reviewed by the Civil Engineering Division Council, CEDC in its last (28th) meeting held on 03 July 2024 is given at **Annex 1**. The Annex also indicates the participation details of the members.

The Committee may **NOTE** and **REVIEW**.

**Item 3 DRAFT ISSUED AS PRELIMINARY DRAFT**

### 3.1 Preliminary Draft Indian Standard Heavy Duty Burnt Clay Building Bricks — Specification [Fourth Revision of IS 2180] DOC No.: CED 30 (26671) P.

The above draft Indian Standard was issued as a Preliminary Draft for comments for a period of before 24 October 2024 for comments, vide BIS email dated 03 October 2024. The draft is attached at **Annex 2** for ready reference please. Comments have been received as enclosed below:

<b>Clause No.</b>	<b>Type of comment</b>	<b>commentator</b>	<b>Comments/Modified Wordings</b>	<b>Justification for the Proposed Change</b>
Clause 9.1	Technical	Shri Maganbir Singh	<p>Original: Each brick shall be marked (in the frog where provided) with the manufacturers identification mark or initials. Bricks of 40 mm height made by extrusion process may not be provided with frogs.</p> <p><i>Modified: Each brick shall be marked (in the frog where provided) with the manufacturers identification mark or initials or can be unmarked/ frogged in case of extruded product. Bricks of 40 mm height made by extrusion process is without frogs.</i></p>	In case of press bricks (compressed) frogs can easily be provided, whereas in extrusion process, frogs have to be provided manually, however, initials/ marking of manufacturer can be provided. Generally extruded bricks are without marking and there is no frog.

The Committee may **CONSIDER** the draft.

#### Item 4 DRAFT UNDER WIDE CIRCULATION

#### 4.1 Draft Indian Standard Common Burnt Clay Building Bricks – Specification DOC: CED 30 (26161) [IS 1077 Sixth Revision]

The above draft Indian Standard was issued in wide circulation for eliciting public comments for a period of 60 days vide BIS email dated 12 July 2024. The period of wide circulation is till 12 September 2024. The draft is attached at **Annex 3** for ready reference please.

<b>Clause/ Para/ Table/ Figure No. commented</b>	<b>Type of comment</b>	<b>commentator</b>	<b>Comments/Modified Wordings</b>	<b>Justification of Proposed Change</b>
Foreword	Editorial	Dr BVV Reddy	ii) Increased floor space iv) Reduction in construction labour cost v) Reduction in losses during handling vi) Reduction in mortar consumption	Using 200 mm wall instead of 230 mm thick wall results in increasing the floor area for a given plinth area
Foreword	Technical	Dr BVV Reddy	Under significant modifications d) Modulus rupture values for bricks added e) IRA values for bricks added	New information added in the code
1	General	Shri Balaji e mail ID: balajinc@nie.ac.in	It can be change to "Higher strength & higher classes brick"	In note mentioned higher strength bricks, But in the Section 7.2 it mentioned higher classes.
4	Technical		Provide allowable standard deviation values for each classes of common burnt brick.	If provide / suggest the deviation value of the compressive strength will be better. for example: for very low

				strength of the brick having 3.5 & 5 MPa bricks, the available strength will not be good, and the deviation will be more. for 3.5MPa brick if $\pm 1.5$ is Standard Deviation , Higher the deviation (i.e., $3.5 + 1.5 = 5.0$ MPa, then the class of brick will be changes.
5.1	General		Brick shall be freed from Organic matter also	"They shall be free from cracks and flaws and nodules of free lime." Add it shall be free from organic matter also
6.1.2	Technical	Dr BVV Reddy	Non-modular size 110 x 70 x 37 – should be changed to one or two sizes of conventional sizes: 230 x 105 x 75 mm	Such non-modular sizes are used in the construction sector.
6.2.1	Technical	Shri Hitesh Desai & Shri Nehal Desai	Tolerance in height for 40 mm thick modular brick and 30 mm thick non-modular brick need not be $\pm 40$ mm.	
7.2 Line 3	Technical		20 percent by <b>dry</b> weight up to class 12.5 and 15 percent	

			by <b>dry</b> weight for higher classes.	
7.4	Technical		Warpage ( <b>Edge curvature</b> )	
7.5	Technical	Dr BVV Reddy	Modulus of rupture The brick when tested as per the procedure laid down in IS 3495 (Part 5) the mean value of the modulus of rupture to its compressive strength shall be more than 0.07.	This is a new procedure and clause added in IS 3495 (Part 5)
7.6	Technical	Dr BVV Reddy	Initial Rate of Absorption (IRA) The brick when tested as per the procedure laid down in IS 3495 (Part 5) the mean value of IRA shall be less than 4 kg/m <sup>2</sup> /minute	This is a new procedure and clause added in IS 3495 (Part 5)

The Committee may **CONSIDER** the draft.

#### **Item 5 TERMS OF REFERENCE FOR R&D WORK**

**5.1** It is proposed that the following standards may be taken up for revision vide R&D method.

IS No	Title	Proposed TOR
IS 1077:1992	Common burnt clay building bricks – Specification (fifth revision)	<b>Annex 4</b>
IS 3952:2013	Burnt clay hollow bricks and blocks for walls and partitions – Specification (third revision)	<b>Annex 5</b>
IS 1725: 2023	Stabilized soil blocks used in general construction – Specification (third revision)	<b>Annex 6</b>

The Committee may **CONSIDER**.

#### **Item 6 COMMENTS ON PRINTED STANDARDS**

**6.1 IS 3952: 2013 Burnt clay hollow bricks for walls and partitions - Specification (Third Revision)**

In the last meeting of the Committee, Wienerberger had suggested some modifications to the existing standard. The updated comment from Wienerberger is attached as **Annex 7**.

The Committee may **CONSIDER**.

## **Item 7 ISSUES CARRIED OVER FROM PREVIOUS MEETINGS**

### **7.1 IS 2117 : 1991 GUIDE FOR MANUFACTURE OF HAND – MADE COMMON BURNT - CLAY BUILDING BRICKS (Third Revision)**

In the previous meetings, Shri Maganbir Singh had offered to provide a sketch/photo of the pugmill. The same is still awaited.

### **7.2 IS 2222 : 1991 SPECIFICATION FOR BURNT CLAY PERFORATED BUILDING BRICK.**

In the previous meeting, Shri Hitesh had offered to provide a 3D figure of the burnt clay perforated building brick showing the shell, web etc. The same is still awaited.

## **Item 8 PROGRESS OF WORK**

### **8.1 Programme of Work**

The Programme of work of the Sectional Committee giving status regarding published standards and those under revision/formulation of new standards/ amendments is given in **Annex 8**.

### **8.2 Standards Due for Review**

The following standards are due for review and were already circulated to the members vide email dated Wednesday, 22<sup>nd</sup> May 2024.

- 1) IS 3495 (Part 1): 2019** Burnt Clay Building Bricks — Methods of Tests Part 1 Determination of Compressive Strength (Fourth Revision)
- 2) IS 3495 (Part 2): 2019** Burnt Clay Building Bricks — Methods of Tests Part 2 Determination of Water Absorption (Fourth Revision)
- 3) IS 3495 (Part 3): 2019** Burnt Clay Building Bricks — Methods of Tests Part 3 Determination of Efflorescence (Fourth Revision)
- 4) IS 3495 (Part 4): 2019** Burnt Clay Building Bricks — Methods of Tests Part 4 Determination of Warpage (Fourth Revision)
- 5) IS 17057: 2019** Construction of Bull's Trench Brick Kiln — Guidelines
- 6) IS 17058: 2019** Glossary of Terms Relating to Brick Kilns

**7) IS 17059: 2019** Construction of Zig Zag Brick Kiln — Guidelines.

No comments were received.

The Committee may **DISCUSS**.

**Item 9 ANY OTHER BUSINESS**

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