

BUREAU OF INDIAN STANDARDS

AGENDA

Cement Matrix Products Sectional Committee, CED 53

Meeting No. Twenty Third Meeting (23rd) Date
24 April 2024, Time 1000h
Venue Hybrid Meeting from (Blue room) (BIS)
HQ, New Delhi, India - 110002)
Meeting ID 2512 925 6875
Meeting Password ced53@
Meeting Link [Click here to join](https://bismanak.webex.com/bismanak/j.php?MTID=mc755bf5dca84198d9179f69ff9be1762)

<https://bismanak.webex.com/bismanak/j.php?MTID=mc755bf5dca84198d9179f69ff9be1762>

Chairperson: Shri V. V. Arora, In Personal Capacity **Member Secretary:** Divya S

ITEM 0 OPENING REMARKS BY THE CHAIRPERSON

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the last (Twenty Second) meetings of the Cement Matrix Products Sectional Committee, CED 6 held on 21 November 2023, was circulated to members vide BISDG letter No. CED 53/A-2.22 dated 24 November 2023. Comments have been received as enclosed.

Sl No.	Comments From	Comments
1	Medhavi Cement Products Pvt. Maharashtra (9422189088)	Please refer comments received on draft amendment no.1 to IS 458/2021 precast concrete pipes. We discussed all the comments; however we considered only changes approved which were sent for wide circulation wide letter no. CED 53/T-01 dated 19.09.2023 and sent for publication. However it was decided that rest of the comments will be at the time revision of IS-458/2021. It was also decided to do R&D an all the schedule of designs of NP1, NP2, NP3, NP4, P1, P2, P3 from reputed institute like IIT on any other competent institute in India the same decision is not recorded in the minutes Please include decision along with task force committee.

		<p>Further we were discussing the working draft circulated in 21st meeting of CED 53 Prepared by Abhinav Tiwari from VNIT. When we study the draft it was just like code IS-17725-2022. We are submitting our submission that separate code is not required for Inspection Chambers, our standard IS-17735/2022 itself is standard for Inspection Chambers for sewage System / Storm water system. However, provisions for house connection was not mentioned in the Standard If we received. Exact product & utilization from the person who has initiated for this proposed standard on Inspection Chambers.</p> <p>I think It may be provision of house Connections and from house connection to public sewage is that the case please throw some light out it. We can include square & rectangular chambers too</p>
2		<p>You are requested to Share International DIN, ASTM, Japan British stand and EN Standard for our reference for above products.</p>

The Committee may CONSIDER the comments.

ITEM 2 REVIEW OF COMPOSITION OF SECTIONAL COMMITTEE, SUBCOMMITTEES AND PANEL

2.1 Composition of the Sectional Committee

2.1.1 The present composition of the Sectional Committee as last reviewed by the Civil Engineering Division Council, CEDC of BIS in its meeting on 21 July 2023 is given in **Annex 1**. The Annex also indicates the participation details of the members in the last few meetings

The Committee may **NOTE**.

ITEM 3 FINALISED DRAFT STANDARDS

3.1 Draft Indian Standard for Precast Concrete Grating – Specification Doc No: CED 53 (22006)F

The draft Indian Standard on Precast Concrete Grating Specification **Doc No: CED 53 (22006)F** was finalized in the last meeting of the Committee, however, the subsequent to the same, the Chairman has suggested that we may modify the clause 7.4 of the standard to clarify that fuel ash confirming to IS 3812

Part 1 alone may be used for the manufacture of precast concrete grating. The Committee may

CONSIDER and advice.

Item 4 ISSUES ARISING OUT OF THE PREVIOUS MEETING

4.1 Based on the discussions and decisions in the previous meeting of the Committee, various works regarding preparation of drafts on new subjects or review of standards for amendment/revision were allocated to members as given below:

Sl No.	Subject	Current composition of the WG	Present status
1.	IS 2185 (Part 1 to 4), and Specification for Concrete Masonry Units	a) Shri P.N. Ojha, NCCBM (Convener) b) Shri M. K. Mallick, CPWD c) Shri S. K. Singh, CSIR-CBRI d) Shri Rajdeep Chowdhury, Biltech Building Elements Limited e) Shri Avinash Pareek, Association of Fly Ash Products Manufacturers f) Shri Shri G.B. Singh, Systems Buildings Technologists g) Shri Vijay Kumbhani, Pavers and Blocks Manufacturers Association	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
2.	IS 6441 (Part 10) Methods of test for autoclaved cellular concrete products: Part 10 Determination of Water Absorption	a) Shri P.N. Ojha, NCCBM (Convener) b) Shri M. K. Mallick, CPWD c) Shri S. K. Singh, CSIR-CBRI d) Shri G.B. Singh, Systems Buildings Technologists e) Dr D. Satvanaranvan. HIL Limited f) Shri Rajdeep Chowdhury, Biltech Building Elements Limited g) Shri Jawahar I. Rawatani, Everest Industries Ltd h) Shri Vijay Kumbhani, Pavers and Blocks Manufacturers Association i) Smt Harini santhanam, Saint Gobain Research India Private Ltd j) Shri Avinash Pareek, Association of Fly Ash Products Manufacturers	In the last meeting, the committee had requested the working group to study the international standards and modify it if required in view of the technological advancement and after receiving the draft form the working group it would be circulated for working draft.
3.	IS 12592:2002 Specification for precast concrete manhole cover and frame	a) Shri P.N. Ojha, NCCBM (Convener) b) Shri Vijay Kumbhani, Pavers and Blocks Manufacturers Association c) Shri M. K. Mallick, CPWD d) Shri S. K. Singh, CSIR-CBRI e) Shri Raj Naveeth Rao, Visaka Industries Limited	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.

		f) Shri V. Dakshina Murthiy, L&T Construction g) Shri C.Y. Medhavi Cement Products	
4.	IS 1592:2003 Specification for asbestos cement pressure pipes and joints (Fourth Revision)	a) Shri S.K. Soni, Infrastructure Ltd b) Shri Venkatesware Pipes Ltd. c) Shri V. Dakshina d) L&T Construction	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
5.	IS 14862 Specifications for Fibre Cement Flat Sheets	a) Shri Sanjay Sahyadri Industries Limited b) Shri Raj Naveeth Rao, Visaka Industries Limited c) Shri Jawahar I. Rawatani, Everest Industries Ltd d) Shri A. Anantharaj, Ramco Industries Ltd	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
6.	Amendment on IS 459:1992 Specification on Corrugated and Semi-Corrugated Asbestos Cement Sheets.	a) Shri P. N. Ojha, NCCBM (Convener) b) Shri Jawahar I. Rawatani, Everest Industries Ltd c) Shri Durgesh C Sharma, Asbestos Information Centre d) Shri R. K. Khandekar NTPC Ltd e) Dr D. Satyanarayanan, HIL Limited f) Shri Raj Naveeth Rao, Visaka Industries Limited g) Shri A. Anantharaj, Ramco Industries Ltd	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
7.	Proposed standard on Specification for "RCC Precast Boundary Wall"	a) Shri Anand Jain, Personal Capacity (Convener) b) Shri S. K. CSIR-CBRI c) Shri C.Y. Gavhane, Medhavi d) Shri S. Gupta NTC Tiles Ltd e) Shri Raj Naveeth Rao, Visaka Industries Limited	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
8.	Proposed standard on Specification for "EPS BLOCK"	a) Shri S. K. Singh, CSIR-CBRI (Convener) b) Shri P.N. Ojha, NCCBM c) Shri A. Jain, Premier Bars Pvt. Ltd	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.

		d) Shri Avinash Pareek, Association of Fly Ash Products Manufacturers	
9.	Proposed standard on Inspection chamber	a) Shri V. Dakshina Murthiay, L&T Construction b) Shri Kushagra Gupta, SGG, RCC Pipe c) Shri C.Y. Gavhane,	In the last meeting committee decided that after receiving the draft form the working group it would be circulated for working draft.
10	IS 16720: 2018 Pulverized fuel ash- cement bricks – Specification	CED 53:1	In the last meeting, the Committee had considered the comments received on IS 16720. CED 53:3 had been requested to examine the same and to submit their inputs.
11	IS 17908: 2023 Fibre cement sheet – Lightweight concrete sandwich panels – Specification	CED 53, CED 53:1	In the last meeting, the Committee had considered the comments received on IS 17903. CED 53 and CED 53:1 had been requested to examine the same and to submit their inputs.

The Committee may **REVIEW** the progress, **CONSIDER** the inputs received so far and decide further course of action.

4.2 IS 458:2003 Precast Concrete Pipes (with and without Reinforcement)

The following letter was received from Dr. Shantini Bokil, Professor and Head, Department of Civil Engineering, MIT-WPU.

“This has reference to the discussions during CED:53 meeting held on 21-11-2023 in respect of certain anomalies in IS:458 pointed out in the Agenda of the meeting. In this respect, the Chairman suggested that it is necessary to carry out R & D on IS:458 through some reputed organization and all the anomalies would be sorted out in the Revision of the standard.

In this regard, we are pleased to inform you that our Association has identified MIT-World Peace University (MIT-WPU) situated at Kothrud, Pune for carrying out the R & D work on IS:458:2021. MIT- WPU is a world recognized organization and can provide dedicated research students for this work. The undersigned had opportunity to meet personally Dr. Shantini Bokil, HOD (Mobile 80077 74113) and Dr. Mahesh Makwana, Asstt. Professor, Civil Engineering Department (Mobile 80873 87816) on 11-03-2024 and 14-03-2024 to discuss the matter in details. We are pleased to inform you that the said organization has expressed willingness to carry out the R & D work in association with SPMA subject to stipulations framed by BIS.

We request you therefore to contact MIT-WPU on following address and provide approval to the said organization for carrying out the R & D work on IS:458 under intimation to our Association at dnj27@rediffmail.com”

The Committee may **CONSIDER**.

4.3 Action Research Project (ARP) & Working Drafts

4.3.1 IS 11769: Part 3: 1986 Guidelines for Safe Use of Products Containing Asbestos: Part 3 Non-cement Asbestos Products Other Than Friction Materials

In the last meeting, the committee had requested CED 53 and subcommittee CED 53:3 to examine the comments received from Shri H.M. Bhandari and to submit report to the committee.

The draft from subcommittee CED 53:3 is awaited. The Committee may consider and advice.

4.3.2 IS 12080: 1987 Recommendations for Local Exhaust Ventilation Systems in Premises Manufacturing Products Containing Asbestos

In the last meeting, the committee noted the decision of Action Research Project (ARP) proposed by shri A. Anatharaj, however committee requested the subcommittee of CED 53:1 to examine once again this Indian standard and provide their view in the decision of Action Research Project (ARP). Shri Anantharaj was also requested to provide additional inputs.

The decision of subcommittee CED 53:1 is awaited. The Committee may consider and advice.

4.3.3 IS 12079: 1987 Recommendations for packaging, transport and storage of asbestos

The Committee, in the last meeting, had requested CED 53:1 to examine the proposal and to submit their proposal.

The decision of subcommittee CED 53: is awaited. The Committee may consider and advice.

4.4 Input by way of Action Research Projects (ARP) of Previous Meeting

In the last meeting, the committee discussed the ARP reports & Working draft which was received from BIS officers and it was requested to committee members to submit their detailed observation on the draft circulated.

As per previous meeting, the details of drafts are given as under:

SL No	IS No	TITLE	ARP & WD Submitted by	Observation from Committee Member
1)	IS 2185 : Part 2 : 1983	Specification for concrete masonry units: Part 2 hollow and solid lightweight concrete blocks (First Revision)	BIS Officer	Awaited
2)	IS 2185(Part 3): 1984	Concrete Masonry Units Part 3 Autoclaved Cellular Aerated Concrete Blocks	BIS Officer	Awaited

3)	IS 2193 : 1986	Precast Pre stressed Concrete Street Lighting Poles	BIS Officer	Awaited
4)	IS 4996 : 1984	Specification for reinforced concrete fence posts (First Revision)	BIS Officer	Awaited
5)	IS 785: 1998	Reinforced concrete poles for overhead power and telecommunication lines - Specification (Second Revision)	BIS Officer	Awaited
6)	IS 9375 : 1979	Precast Reinforced Concrete Plant Guards	BIS Officer	Awaited
7)	IS 13356 : 1992	Precast Ferrocement Water Tanks up to 10000 Litres Capacity	BIS Officer	Awaited
8)	IS 5751 : 1984	Specification for precast concrete coping blocks (First Revision)	BIS Officer	Awaited
9)	IS 1626 : Part 2 : 1994	Asbestos cement building pipes and pipe fittings, gutters and gutter fittings and roofing fittings: Part 2 gutter and gutter fittings) (Second Revision)	BIS Officer	Awaited
10)	IS 6523 : 1983	Precast Reinforced Concrete Door and Window Frames	BIS Officer	Awaited

The Committee may **consider** and **advise**.

4.5 Comment on IS 17725: 2022 Precast Concrete Circular Manhole — Specification

In the last meeting, the committee considered the comments received from Manak Manthan and it was decided that after receiving the inputs from the subcommittee CED53:3 it would be circulated to the committee.

The inputs from sub-committee CED53:3 still awaited. The Committee may **consider** and **advise**.

4.6 Proposed standard on “Precast Concrete U Drains”

In the last meeting, the committee considered the proposal received from Pakona Engineers and also requested to Pakona Engineers to submit the draft on “**Precast Concrete U Drains**”. The Committee decided that after receiving the draft it would be circulated as Working Draft.

The inputs from Pakona Engineers still awaited. The Committee may **consider** and **advise**.

4.7 Proposed standard on “Jacking Pipes, Box Culverts and U Drains”

In the last meeting, the committee consider the proposal received from BIS Officer and the committee had requested Medhavi Cement Products to submit the draft on **“Jacking Pipes, Box Culverts”**. The Committee decided that after receiving the draft it would be circulated as Working Draft.

The inputs from Medhavi Cement Products still awaited. The Committee may **consider** and **advise**.

Item 5 COMMENT ON EXISTING STANDARDS

5.1 IS 2386 Part 3 Concrete Masonry Units Part 3 Autoclaved Cellular Aerated Concrete Blocks

The following comment was received from NCL Buildtek - Hyderabad, manufacturer of Autoclaved Aerated Concrete Block.

- i. Why AAC Block calling as a Concrete Block (BIS 2185 Part3) instead off Fly Ash Block although it contains major % of fly ash and in the trade the buyers also calling it is a fly ash block.
- ii. As per our understanding concrete requires fine & coarse aggregates to satisfy the condition of calling mixture as concrete. But in AAC block the aggregates in the form of fly ash are only fine aggregates and there are no coarse aggregates. In spite of that, why these blocks are called as concrete blocks in BIS 2185 Part3
- iii. Fly ash contains SiO_2 between (60 to 65 %) & comes in the form of powder (45 Microns) and the Sand contains $\text{SiO}_2 > 90\%$ which is very hard in nature than Fly Ash and both considered as an aggregates in BIS 2185 part 3: 1984 why'

The Committee may **DISCUSS**

Item 6 INTERNATIONAL STANDARDIZATION

6.1 India is an 'O' member on ISO Technical Committee ISO/TC 77 “Products in fibre reinforced cement”.

6.2 India is a signatory to WTO Agreement on Technical Barriers to Trade (TBT) and has aligned its standards formulation procedures to the 'Code of good practices for preparation, adoption and application of standards'. One of the provisions of the code requires BIS to use international standards wherever they exist as a basis for standards being developed and wherever practicable to do so.

The Committee may note the above, the international standards published and the subjects under development in ISO TC 77 for information and their effective utilization in the standardization work undertaken by the Committee.

The Committee may **NOTE**.

Item 7 PROGRESS 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 2**.

The Committee may **NOTE** and **REVIEW**. **Item 8 RESOLUTIONS OF THE MEETING** **Item 9 ANY**

OTHER BUSINESS
