

**BUREAU OF INDIAN STANDARDS**

**MINUTES OF MEETING**

**GLASS, GLASSWARE AND LABORATORYWARE SECTIONAL COMMITTEE,  
CHD 10**

**Twenty Sixth Meeting**

**Day & Date** : Monday, 22 July 2024

**Time** : 04:00 PM

**Venue** : New Delhi, (Virtual)

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**The list of attendees is attached at Annex-I.**

**ITEM 1 OPENING OF THE MEETING**

**1.1 Welcome by Bureau of Indian Standards**

On behalf of BIS, the member secretary welcomed the chairperson and all the members to the meeting.

**1.2 Opening remarks by Chairperson**

The chairperson warmly welcomed all the members to the meeting and expressed her desire for a fruitful discussion.

**Item 2 COMPOSITION OF THE COMMITTEE**

**2.1** The committee reviewed and confirmed the scope & composition of the committee with changes given below:

- i.** From HSIL Limited, Packaging Products Division, AGI glaspac, Hyderabad, Shri Rajesh Khosla shall be the primary member and Shri Ajay Joshi shall be the alternate member.
- ii.** The committee co-opted Shri Shrikant Gangan in personal capacity.
- iii.** The committee co-opted Dr Devendra Kumar in personal capacity.
- iv.** Shri MAU Khan shall be the primary member and Shri H Wadhwa shall be the alternate member from Consumer - Voluntary Organization in Interest of Consumer Education (CVOICE).

**2.2 Re structuring of the Subcommittee and panels:**

The committee noted that there shall be working panels and working groups only to carry out the technical discussions as per the following details:

<b>Characteristics</b>	<b>Working Panels</b>	<b>Working Groups</b>
<b>Scope of Work</b>	Can be subject specific, but not standard specific	Shall be limited to one document, or a series of documents

<b>Life Span</b>	May be permanent type, usually have longer life	For short durations, defined time intervals
<b>Size</b>	8-15 members	Not more than 10

The committee reviewed the existing subcommittees and panels and restructured them as follows:

<b>Sr. No.</b>	<b>Existing Subcommittee/ Panel/WG</b>	<b>New Panel/ Working Group</b>	<b>Revised Scope of Work</b>
i.	CHD 10: P2 Fire Resistant Glazing Panel	CHD 10: WG 2.	<ul style="list-style-type: none"> <li>To develop the Indian Standard on FRG.</li> </ul>
ii.	CHD 10: SC 1 Terminology, code of practice, methods of sampling and tests SC	CHD 10: P3 Terminology, code of practice, methods of sampling and tests Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on terminology, code of practice, and methods of sampling and tests</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> </ul>
iii.	CHD 10: SC 2 Raw Materials SC	CHD 10: P4 Raw Materials Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on glass raw materials</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> </ul>
iv.	CHD 10: SC 3 Glassware & Containers SC	CHD 10: P5 Glass Packaging & Containers Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on glassware and containers</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> <li>To coordinate with ISO/TC 63</li> <li>To prepare the stand of India on the documents emanating from ISO/TC 63.</li> </ul>
v.	CHD 10: SC 4 Processed Glass SC	CHD 10: P6 Processed Glass Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on processed glasses.</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> <li>To prepare the stand of India on the documents emanating from ISO/TC 60 on the subject.</li> </ul>
vi.	CHD 10: SC 5 Laboratory Glassware SC	CHD 10: P7 Laboratory Glassware Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on laboratory glassware.</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> <li>To coordinate with ISO/TC 48</li> </ul>

			<ul style="list-style-type: none"> <li>To prepare the stand of India on the documents emanating from ISO/TC 48.</li> </ul>
vii.	CHD 10: SC 6 Flat & Coated Glass SC	CHD 10: P8 Flat & Coated Glass Panel	<ul style="list-style-type: none"> <li>To develop and revise standards on flat, annealed and coated glasses.</li> <li>To harmonize Indian standards with ISO standards on the subject.</li> <li>To prepare the stand of India on the documents emanating from ISO/TC 60 on the subject.</li> </ul>

### ITEM 3 NEW SUBJECTS

#### 3.1 Chemically Tempered Screen Glass Protectors

The member secretary informed the committee that this subject was allocated to Mr. Jyotishman Mohanty (B.Tech. Ceramic Engineering student at NIT Rourkela) who joined BIS as an intern for 2 months. On completion of his internship, he has submitted a report along with a working draft on the subject. Mr. Mohanty presented his findings and key requirements of the draft standard to the committee.

The committee constituted a working group with following composition to further work upon the subject.

#### CHD 10: WG 3 Chemically Tempered Screen Protector Glass WG

Sr. No.	Organization	Representative(s)
i.	CSIR-CRCGR, Kolkata	Dr. K Annapurna ( <i>Convener</i> )
ii.	NIT Rourkela	* To nominate experts Mr. Jyotishman
iii.	Ministry of Electronics & Information Technology (MeITY)	* To nominate experts
iv.	Opetimus	* To nominate experts
v.	Corning Glass	* To nominate experts
vi.	CEAMA	* To nominate experts
vii.	ICEA	* To nominate experts
viii.	FOSG	Shri Sharanjit Singh
ix.	AIGMF	Mr. Prem Dutt
x.	GSI	Mr. Gohul Deepak

The committee requested member secretary to write to these organizations for their nominations and schedule a meeting as soon as possible. The committee finalized a timeline for the development of the standard as follows:

**Proposed Timeline:**

WD Development	P-Draft for 21 Days	Resolution of Comments	WC-Draft for 60 days	Resolution of Comments	Finalization and Gazette
By 30 September	October 2024	November 2024	Dec-Jan 2025	Feb 2025	30 Apr 2025

**3.2 Test Method for Chemical Analysis of Glass**

The member secretary informed the committee that a proposal was received from AGI Glaspac to develop an Indian Standard compiling all the available test methods for chemical analysis of glass. The subject was allocated to Ms. Dibyarchana Nayak (B.Tech. Ceramic Engineering student at NIT Rourkela) who joined BIS as an intern for 2 months. On completion of her internship, she has submitted a report along with a working draft on the subject. She also presented her findings and test methods that are included in the draft standard to the committee during the meeting.

The committee decided to refer the subject to CHD 10: P 3 Test Method Standards Panel. The proposed timelines for the development of this standard are as follows:

**Proposed Timeline:**

WD Development	P-Draft for 21 Days	Resolution of Comments	WC-Draft for 60 days	Resolution of Comments	Finalization and Gazette
By 30 October	November 2024	December 2024	Jan-Feb 2025	March 2025	30 May 2025

**ITEM 4 EXTRA CLEAR FLOAT GLASS**

The member secretary informed the committee that:

- The matter for formulation of a separate standard on extra clear float glass has been discussed several times in the committee, however due to lack of consensus on the formulation of the standard, the subcommittee, CHD 10:6 in its 10th meeting recommended to refer the item to Chemical Division Council (CHDC).
- Accordingly, the matter was listed before the CHDC in its 26th meeting held on 15.02.2023 along with the list of technical differences/justification provided by the FOSG. After deliberating on the subject, the council decided that ***“that there should not be separate standard on Extra Clear Float Glass and it would be more prudent to incorporate the parameters of Extra Clear Float Glass as a separate grade in the existing IS 14900: 2018”***
- The committee also noted that the current standard covers all types of transparent float glass and does not differentiate between clear and extra clear or ultra-clear varieties.
- The matter was discussed in the 11<sup>th</sup> meeting of CHD 10:6 held on 30 April 2024. The subcommittee noticed that the data generated by earlier testing done by GSI at CGCRI, Kolkata is

not sufficient to differentiate between the clear and extra clear varieties. Hence, the subcommittee suggested to have a further R&D Project on the subject to generate and gather the testing data on different parameters on both the varieties.

The committee agreed to the proposal of CHD 10:6 subcommittee and requested member secretary to formulate a ToR for the R&D Project. Committee also requested Shri Sharanjit Singh (FOSG) to give provide inputs on sample collection and parameters to be tested. The committee authorized the chairperson to finalize the ToR on behalf of the committee.

#### ITEM 5 UPDATION OF DOCUMENT NO FOR PENDING DOCUMENTS

The member secretary informed the committee that the following documents were under discussion in CHD 10:5 Laboratory ware subcommittee, anticipating the work, the member secretary registered these documents in committees program of work in 2023. However, not much work progress was made until recently. Hence, the old document no's have been dropped and replaced with new document no's as given below:

Sl. No.	IS No.	IS Titles	Old Documents No.	New Documents No.
1	IS 8728: 1977	ADJUSTABLE RANGE THERMOMETERS - SPECIFICATION (First Revision)	CHD/10/24335	CHD/10/25196
2	IS 12244: Part 1: 1988	CALORIMETER THERMOMETERS SPECIFICATION PART 1 SOLID-STEM THERMOMETERS (First Revision)	CHD/10/24357	CHD/10/25202
3	IS 12244 : Part 2: 1988	CALORIMETER THERMOMETERS SPECIFICATION PART 2 ENCLOSED SCALE THERMOMETERS (First Revision)	CHD/10/24358 CHD/10/24460	CHD/10/25203
4	IS 8697: 1977	Export Packaging of Glass Container Ware Code of practice (First Revision)	CHD/10/24989	CHD/10/25195
5	IS 7000: 1973	GENERAL PURPOSE MAXIMUM AND MINIMUM THERMOMETERS SPECIFICATION (First Revision)	CHD/10/24355	CHD/10/25201
6	IS 3608 : Part 1: 1987	GLASS ALCOHOLOMETERS SPECIFICATION PART 1 GLASS ALCOHOLOMETERS WITHOUT THERMOMETER (Second Revision)	CHD/10/24338	CHD/10/25204

7	IS 3608 : Part 2: 1987	GLASS ALCOHOLOMETERS SPECIFICATION PART 2 GLASS ALCOHOLOMETERS WITH THERMOMETER THERMO-ALCOHOLOMETERS (Second Revision)	<a href="#">CHD/10/24365</a>	<a href="#">CHD/10/25206</a>
8	IS 8787: 2018	Principles of design construction and use of liquid - In - Glass thermometers (Second Revision)	<a href="#">CHD/10/24336</a>	<a href="#">CHD/10/25200</a>
9	IS 9425: 1980	Selenium for glass compositions - Specification (First Revision)	<a href="#">CHD/10/21043</a>	<a href="#">CHD/10/25207</a>

The committee also approved the new drafts for wide circulation for a period of 60 days.

#### **ITEM 6 DATE AND TIME FOR NEXT MEETING**

The committee decided to hold the next meeting in the third week of October 2024, the exact dates will be communicated in consultation with the chairperson.

#### **ITEM 7 VOTE OF THANKS**

There being no any other business, the meeting ended with a hearty vote of thanks to the chair.

## ANNEX I

### PARTICIPANTS IN THE 26<sup>th</sup> Meeting of CHD 10 Glass, Glassware, and Laboratoryware

**Chairperson:** Dr Suman Kumari Mishra, Director-CGCRI, Kolkata

**Member Secretary:** Shri Mohit Garg, Sc- C, BIS

<b>Sl. No</b>	<b>Organization</b>	<b>Representative</b>
1.	Asahi India Glass Limited, Rewari	Shri Nagendra Kumar
2.	Bhabha Atomic Research Centre, Mumbai	Dr Madhumita Goswami
3.	Borosil Glass Works Limited, Mumbai	Shri Satish Chitriv
4.	Central Glass and Ceramic Research Institute, Kolkata	Dr K. Annapurna
5.	Confederation of Construction Products and Services, New Delhi	Ms Sarita Balodhi
6.	Consumer Voice, New Delhi	Shri B K Mukhopadhyay Shri H. Wadhwa
7.	Controllerate of Quality Assurance (Materials), Kanpur	Shri Brajesh Singh Tomar
8.	Federation of Safety Glass, Faridabad	Shri Sharanjit Singh Shri Tariq Kachwala
10.	Glazing Society of India, Chennai	Shri Gohul Deepak Ms Dilna Subramanian
11.	Gold Plus Glass Industry, New Delhi	Shri Prem Dutt Ms Vrinda
12.	Government College of Engineering and Ceramic Technology, Kolkata	Prof Rituparno Sen
13.	HSIL Limited, Packaging Products Division, AGI Glaspac, Hyderabad	Shri Rajesh Khosla
14.	Hindustan National Glass Industries Limited, Kolkata	Shri Prasanna Jain
15.	Indian Institute of Packaging, New Delhi	Dr Tanweer Alam
16.	Office of Development Commissioner (MSME), New Delhi	Shri Ambrose Royson C
17.	Saint-Gobain India Private Limited, Chennai	Shri Chiranjit Roy

18.	Schott Glass India Private Limited, Pune	Shri Anand Bakshi Shri Lalatendu Behera
19.	Shriram Institute for Industrial Research, Delhi	Shri Arun Kumar Ms Kamini Kalra
20.	Sisecam Flat Glass India Private Limited, Panchmahal	Shri Parag Shah
21.	In Personal Capacity	Shri Shrikant Gangan
22.	In Personal Capacity	Dr. Devendra Kumar

Invitees:

1. Shri Jyotishman Mohanty, NIT Rourkela (final year B.Tech. Cermaic Engineering)
2. Ms Dibyarchana Nayak, NIT Rourkela (final year B.Tech. Cermaic Engineering)