# BUREAU OF INDIAN STANDARDS

**AGENDA**

**CHEMICAL HAZARDS SECTIONAL COMMITTEE, CHD 7**

**14th Meeting**

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| **Date and Time of Meeting:** 27.09.2024, 10:30 AM  **Place:** Virtual meeting in BIS, Manak Bhawan  **Meeting URL:**  <https://bismanak.webex.com/bismanak/j.php?MTID=mae0532f3b29972a7e13174885df01a6c>  **Meeting ID:** 2510 752 1360  **Password:**  CHD7@2024 |  |

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| **Chairperson** | Shri Lalit R. Gabhane, Director General, National Safety Council |
| **Member-Secretary** | Ms. Shubhanjali Umrao, Scientist–C/Member Secretary, BIS |

**Item 1 Welcome and OPENING Remarks**

**1.1** Welcome of Chairperson and Members by Bureau of Indian Standards

**1.2** Opening remarks of the Chairperson

**Item 2 Confirmation of the Minutes of THE 13th meeting**

**2.1** The minutes of the virtual 13th of CHD 07 held on **16.04.2024** at Bureau of Indian Standards, New Delhi were circulated to the members of CHD 07 via BIS Standardization Portal on **19.04.2024** and no comments have been received.

The Committee may ***CONFIRM*** the minutes, as circulated.

**Item 3 SCOPE AND Composition of CHD 07**

**3.1 SCOPE :** To formulate Indian standard for

i) terminology, methods of sampling and test , codes of practices and guidelines relating to chemical hazards and occupational health and safety related to chemicals ,

ii) classification of hazardous chemicals and chemical hazards;

iii) code of safety for operational hazards in chemical industries and chemical laboratories etc;

iv) standard format for safety data sheets and cards for hazardous chemicals.

**Liason with:** ISO/TC 336 ‘Laboratory Design’.

The Committee may **REVIEW.**

**3.2 COMPOSITION OF THE SECTIONAL COMMITTEE, CHD 07**

**3.2.1** The composition of CHD 7 and panel of CHD 7 along with the participation level of member organization in last three meetings of CHD 7 is given at ANNEX -I.



The Committee may **REVIEW** the composition keeping in view the participation level & contribution of the member organization in the last three meetings**.** The Committee may also co-opt new organizations that are capable of contributing in the new technologies/areas of work relevant to CHD 07.

**3.2.2** As decided during the last meeting the following organization have been withdrawn considering non-participation in 3 consecutive meetings and contribution in work of Standardization and same has been updated on standardization portal:

1. High Enery Material Research Laboratory, Pune

2. Safety Research Institite, Atomic Energy Regulatory Board Campus, Kalpakkam

3. Indian Institute of Technology, Bombay, Mumbai

4. Indian Institute of Technology, Madras, Chennai

The Committee may **NOTE.**

**3.2.4 New Co-option request received**

**3.2.4.1** The request has been received on BIS Standardization Portal from Shri. Ashish Shah, he has shown willingness to participate in the activities of this committee. The resume and organization letter are attached.

 

**3.2.4.2** The request has been received on BIS Standardization Portal from Shri. Amit Kumar, he has shown willingness to participate in the activities of this committee. The resume and organization letter are attached.



**3.2.4.2** The request has been received on BIS Standardization Portal from Shri. Manan Shah, he has shown willingness to participate in the activities of this committee. The resume and organization letter are attached.

 

**3.2.4.4** The request has been received on BIS Standardization Portal from Ms. Surbhi Dahiya, she has shown willingness to participate in the activities of this committee. The resume and organization letter are attached.

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The Committee may **REVIEW.**

**3.2.5 Shri. Sanjay Purohit, Principal Architect, Studio Archnovate** has been co-opted in Panel CHD 07: P8 and nominations have been updated on standardization portal.

The Committee may **NOTE.**

**3.2.6 Ms. Ritu Agrawal, BIT Mesra** has been co-opted in Panel CHD 07: P8 and nominations have been updated on standardization portal.

The Committee may **NOTE.**

ITEM 4 ACTIONS ARISING OUT OF THE MINUTES OF PREVIOUS MEETING

* 1. IS 4544 : 2000 Ammonia - Code of safety.
* In the 12th meeting, the committee decided to reallocate the work of preparation of revised draft from Shri D. K. Thakur, Tata Chemical Ltd to Shri. Diptendu Das, AERB. The pdf and editable copy of IS 4544 has been shared with Dr. Diptendu Das, AERB, so that suitable changes may be directly incorporated in the draft. Dr. Diptendu Das, AERB agreed to provide the revised draft within a period of 1 month.
* In the 13th meeting, the Committee noted that Dr. Dipendu Das has agreed to provide the revised version, incorporating necessary technical changes within a period of one month.
* The draft received from Dr. Dipendu Das has been attached.



The Committee may ADVISE

* 1. IS 14200: 1994 Hydrogen Peroxide – Code of Safety.
* In the 13th meeting, the Committee decided to once again request Ms. Dadamudi Usharani, CFTRI to provide the revised draft with in the period of 10 days. In addition, the Committee decided to share the editable copy with Shri Muraleekrishnan R, ISRO to seek his valuable comments.
* Accordingly, the Committee decided that the revised draft received from Ms. Dadamudi Usharani, CFTRI and Shri Muraleekrishnan R, ISRO will be issued into wide circulation after seeking approval from the Chairperson.
* The comment received form Muraleekrishnan R, ISRO is attached. However, the revised draft is awaited from Ms. Dadamudi Usharani, CFTRI.



The Committee may ADVISE

* 1. IS 15548: 2005 Hydroflurocarbon- Code of Safety.
* In the 13th meeting, the Committee decided to once again request Dr. Arti Bhatt, CFEES to provide the revised draft with in the period of 1 month.
* The revised draft received from Dr. Arti Bhatt, CFEES has been attached.



The Committee may ADVISE

ITEM 5 INDIAN STANDARDS/AMENDMENTS PUBLISHED

* 1. IS 5208 : 2024 Acetic Acid — Code of Safety (First Revision)
* The standard was under printing at the time of the last meeting, the standard has been published asIS 5208 : 2024 Acetic Acid — Code of Safety (*first revision*).

The Committee may NOTE

5.2 IS 6270 : 2024 Phenol — Code of Safety (First Revision)

* The standard was under printing at the time of the last meeting, the standard has been published asIS 6270 : 2024 Phenol — Code of Safety (*first revision*).

The Committee may NOTE

5.3 IS 4560 : 2024 Nitric Acid — Code of Safety (First Revision)

* The standard was under printing at the time of the last meeting, the standard has been published asIS 4560 : 2024 Nitric Acid — Code of Safety (*first revision*).

The Committee may NOTE

6 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR FINALIZATION

6.1 CHD/07/20672 Nitrous Oxide — Code of Safety

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.2 CHD/07/25638 IS 5931 (Part 1), Code of Safety for Cryogenic liquid Part 1 Liquid Oxygen (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.3 CHD/07/25639 IS 5931 (Part 2), Code of Safety for Cryogenic liquid Part 2 Liquid Nitrogen (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.4 CHD/07/25640 IS 5931 (Part 3), Code of Safety for Cryogenic liquid Part 3 Liquid Argon (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.5 CHD/07/25641 IS 5931 (Part 4), Code of Safety for Cryogenic liquid Part 4 Liquid Helium (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.6 CHD/07/25642 IS 5931 (Part 5), Code of Safety for Cryogenic liquid Part 5 Liquid Hydrogen (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.7 CHD/07/25643 IS 5931 (Part 6), Code of Safety for Cryogenic liquid Part 6 Liquid Krypton (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

6.8 CHD/07/25644 IS 5931 (Part 7), Code of Safety for Cryogenic liquid Part 7 Liquid Neon (First Revision)

* In the 13th meeting, the Committee noted that revised draft has been issued into wide circulation. and decided that comments received on WC Draft will be deliberated and discussed in Panel CHD 07: 06.
* Accordingly, the comments received on WC Draft were deliberated and resolved in the 2nd meeting of Panel CHD 07: 06 held on 27-08-2024.
* The Panel CHD 07: 06 has recommended to finalized the draft, the draft will be finalized is attached.



The Committee may ADVISE

7 DRAFT STANDARDS/AMENDMENTS TO BE ISSUED INTO WIDE CIRCULATION

7.1 IS 6818: 1973 Code of Safety for Phosphoric Acid.

* The draft is yet to be issued into wide circulation.

The Committee may NOTE

* 1. 15738: 2007 Stable Bleaching Powder-Code of Safety
* The draft is yet to be issued into wide circulation

The Committee may NOTE

7.3 IS 6953: 1973 Code of safety for bromine.

* The draft is yet to be issued into wide circulation.

The Committee may NOTE

ITEM 8 DRAFT STANDARDS/AMENDMENTS UNDER PREPARATION

8.1 GIA 005/11: Storage and handling of Silane and Silane mixtures

* The working draft received from GIA is still awaited.

The Committee may ADVISE

**8.2 GIA 010/11: Hazards of inert gases and Oxygen depletion**

* The working draft received from GIA is still awaited.

The Committee may ADVISE

**8.3 GIA 014/13: Fire hazards of Oxygen and Oxygen enriched atmospheres**

* The working draft received from GIA is still awaited.

The Committee may ADVISE

ITEM 9 NEW SUBJECTS

**9.1 NWIP on Handbook of Loss Prevention**

* The work for preparation of working document has been allocated to CHD 07: P1. The working document is still awaited from CHD 07: P1.
* The Committee may ADVISE

**9.2 NWIP Sodium Cyanide Code of Safety**

* The draft is awaited from Shri Sheelendra Pratap Singh.

The Committee may ADVISE

**9.3 New Work Item Proposal on CHLORINE LEAKAGE KIT FOR TONNERS**

* In the 13th meeting, the Committee requested Prof G. D Yadav and Shri. H S Das to share with BIS details of manufacturers of Chlorine leakage kits and user industries. Further the Committee decided to onboard stakeholders in the panel constituted under the convenership of Shri. H S Das for preparing a working document on this subject.
* The working document is still awaited.

The Committee may ADVISE

**ITEM 10 INTERNATIONAL ACTIVITIES.**

**10.1 Membership status of ISO/TC**

CHD 07 is coordinating with the following ISO technical committees/subcommittees:

|  |  |
| --- | --- |
| **Subcommittee/Working Group** | **Title** |
| ISO/TC 336 | Laboratory design |
| ISO/TC 336/TF 1 | Laboratory design roadmap |
| ISO/TC 336/WG 1 | Terms and Definitions |
| ISO/TC 336/SG 2 | General Principles of Laboratory Design |
| ISO/TC 336/SG 3 | Mobile Laboratory |
| ISO/TC 336/SG 4 | Smart Laboratory |

The programme of work and published standards of the ISO/TC's given at following LinksIn the 13th meeting, the Committee thoroughly reviewed the scope of Study groups and decided to nominate following experts:

[ISO/TC 336 - Laboratory design](https://www.iso.org/committee/8581603.html)

India is a signatory to WTO-TBT Agreement 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 relevant international standards published and the subjects for information & effective utilization in harmonization.

**9.2.1 Registered Indian Experts**

The following Indian experts are registered in the ISO committees:

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| --- | --- | --- |
| **S. No.** | **ISO Committee/Study groups** | **Nomination Expert** |
|  | **ISO/TC 336/SG 2 ‘General Principles of Laboratory Design** | * Ms. Archana Salil, Principal Architect, Arena Consultant * Smt. Megha Gangrade, Founder and Principal Architect, DESIGN4 * Shri. Sanjay Purohit, Studio Archnovate * Ms. Ritu Agrawal, BIT Mesra |
|  | **ISO/TC 336/SG 3 titled “Mobile Laboratory** | * Ms. Archana Salil, Principal Architect, Arena Consultant * Dr. Arti Bhatt, CFEES * Shri. Sanjay Purohit, Studio Archnovate * Ms. Shubhanjali Umrao, Member Secretary, CHD 07 |
|  | **ISO/TC 336/SG 4 titled “Smart Laboratory”** | * Ms. Archana Salil, Principal Architect, Arena Consultant * Smt. Megha Gangrade, Founder and Principal Architect, DESIGN4 * Shri. Sanjay Purohit, Studio Archnovate * Ms. Shubhanjali Umrao, Member Secretary, CHD 07 |
|  | **ISO/TC 336 “Laboratory design”** | * Ms. Shubhanjali Umrao, Member Secretary * Shri Ajay Kumar Lal, Scientist ‘F’/Senior Director and Head (Chemical) |
|  | **ISO/TC 336/TF 1 Laboratory design roadmap** | * Ms. Archana Salil, Principal Architect, Arena Consultant |
|  | **ISO/TC 336/WG 1 Terms and Definitions** | * Dr. Arti Bhatt, CFEES * Ms. Shubhanjali Umrao, Member Secretary, CHD 07 * Smt. Megha Gangrade, Founder and Principal Architect, DESIGN4 * Ms. Archana Salil, Principal Architect, Arena Consultant |

The Committee may NOTE

**10.2 Designation of experts on ISO Documents**

As per the PNC09/20/2024-PNC-BIS dated 20.08.2024, as directed by the Competent Authority the Sectional Committee, shall determine and specify the Level of Interest for each NWIP or draft standard received from ISO/IEC in the IRD Portal. Followed by designation of one or two members of the Sectional Committee to represent BIS for standards categorized as Level H (High) and M (Medium). These designated experts will act as face and voice of BIS for the project at the ISO/IEC level. The designated expert shall be responsible for providing detailed feedback on drafts and documents from ISO/IEC, assisting the Sectional Committee in developing the rationale for proposing NWIPs, finalizing proposals for leadership positions and secretariats and briefing the Sectional Committee on discussions at the ISO/IEC level.

The Committee may ADVISE

**ITEM 11 DEMONSTRATION OF IR PORTAL**

**ITEM 12 PROGRAMME OF WORK (INCLUDING PERIODIC REVIEW OF INDIAN**

STANDARDS)

12.1 Programme of Work

The present program of work of Chemical Hazards Sectional Committee, CHD 07 is given:



The Committee may NOTE

**12.2 Review of Indian Standards**

Under the Intern Policy of BIS, the following standard (IS 4644, IS 8388) has been allocated to an intern for the preparation of pre-standardisation report, which included:

* Collection of information
* Related to manufacture basis report
* User industry and inline ministry, etc.

The intern's report on the industrial exposure related to the standard is attached.



The Committee may ADVISE

**ITEM 13 DATE AND PLACE OF NEXT MEETING**

ITEM 14 VOTE OF THANKS