

BUREAU OF INDIAN STANDARDS

MINUTES

CHEMICAL HAZARDS SECTIONAL COMMITTEE, CHD 7 14th Meeting

Date and Time of Meeting: 27.09.2024, 10:30 AM

Place: Virtual meeting in BIS, Manak Bhawan

Chairperson	Dr. Lalit R. Gabhane, Director General, National Safety Council
Member-Secretary	Ms. Shubhanjali Umrao, Scientist-C/Deputy Director, Member Secretary CHD 07, BIS

MEMBERS PRESENT

1. Shri K Srinivasan, AMAI
2. Shri. H. S. Das, AMAI
3. Dr. Diptendu Das, AERB
4. Shri Vishvajit Bhatkhande, AERB
5. Dr Pankaj Kumar Kanujia, CSIR-IIP, Dehradun
6. Dr Sheelendra Pratap Singh, IITR Lucknow
7. Ms Dipti Barui Bose, CFEES
8. Dr. Prabhat Garg, DRDE Gwalior
9. Dr. Virendra Vikram Singh, DRDE Gwalior
10. Shri Muraleekrishnan R, ISRO
11. Dr. Kunal Sharma, DGFASLI
12. Shri Anoop Tandon, GIA
13. Shri. Balasubrahmanyam, GIA
14. Shri Sanjay Harlaka, HUL
15. Dr. C. Nandi, ICC Mumbai
16. Shri. Dhrumil Soni, ICC Mumbai
17. Dr. B. M. Bhanage, ICT Mumbai
18. Shri. Amit Vashishtha, MoEF&CC
19. Prof. S.P. Sivapirakasam, NIT Trichy
20. Dr. Sreejith Mohan, NIT Trichy
21. Shri Amit Sharma, OISD
22. Shri Mohammad, SAMA
23. Shri. Amit Singh, Shriram Institute for Industrial Research, Delhi

24. Dr. Jagdish Kumar, Shriram Institute for Industrial Research, Delhi
25. Shri. D K Thakur, Tata Chemicals Ltd.
26. Shri. S Soundararajan, In Personal Capacity

ITEM 1 WELCOME AND OPENING REMARKS

1.1 Welcome of Chairperson and Members by Bureau of Indian Standards

On behalf of Bureau of Indian Standards, Member Secretary (MS) warmly welcomed the Chairperson Dr. Lalit R. Gabhane, Director General, National Safety Council and Committee members to 14th meeting of Chemical Hazards Sectional Committee, CHD 07.

The BIS Secretariat expressed heartfelt gratitude to the Chairperson and the Committee members for their hard work, commitment, and relentless pursuit of excellence throughout the standardization activities related to Chemical Hazards Sectional Committee. Additionally, BIS Sectt. once again requested Committee members to review all the Preliminary and Wide circulation draft issued under the umbrella of this Committee and provide comments (technical as well as editorial). In case there is no comment to offer, Members, can submit that they agree with the draft.

1.2 Opening remarks of the Chairperson

The Chairperson welcomed the Committee members and acknowledged their efforts in the timely review of Indian Standards. He encouraged members involved in national standardization to consider increasing their participation in ISO activities to ensure that Indian requirements are addressed at the international level. This would keep both the experts, and the Committee informed about relevant international developments, which could benefit India's water testing landscape. He also requested the members to follow BIS requirements, including attending meetings and submitting comments on P and WC draft documents.

ITEM 2 CONFIRMATION OF THE MINUTES OF THE 13TH MEETING

2.1 The Committee confirmed the minutes of the 13th meeting as circulated.

ITEM 3 SCOPE AND COMPOSITION OF CHD 07

3.1 SCOPE

The Committee reviewed and confirmed the Scope of CHD 07.

3.2 COMPOSITION OF THE SECTIONAL COMMITTEE, CHD 07

3.2.1 The Committee reviewed the composition decided the following:

- 1.** A communication to the organizations, as their representative have not attended this meeting, with the aim of confirming that there has been no change in representation from organization. If there has been a change, requesting organization to provide fresh nominations to ensure active participation of organizations in standardization work of CHD 07:

1. CSIR-Central Food Technological Research Institute, Mysore
2. National Chemical Laboratory, Pune
3. National Institute of Occupational Health, Ahmedabad
4. Oil Industry Safety Directorate (Min. of Pet. & Natural Gas), Delhi
5. Pesticides Manufacturer and Formulators Association of India
6. Petroleum & Explosives Safety Organization, Nagpur
7. Crop Care Federation of India, New Delhi
8. Department of Chemicals and Petrochemicals, Government of India, New Delhi

2. Dr. Jagdish Kumar informed the Committee during meeting regarding change in nomination from Shriram Institute of Industrial Research. Shri. Amit Singh shall be new Alternate Member from Shriram Institute of Industrial Research.

3. The Committee reviewed the Composition of Panel and decided to disband CHD 07:P5 'Panel for Safe Practices for Storage and Handling of Nitrous Oxide', CHD 07:P5 as the standards has been finalized and sent for printing. The Committee also rename CHD 07:P6 'Panel on IS 5931: 1970 Code of Safety for handling cryogenic liquids , CHD 07:P6' as CHD 07: P6 'Industrial Gases- Code of Safety'.

3.2.2 The Committee noted Item 3.2.2 of the Agenda.

3.2.4 New Co-option request received

3.2.4.1 The Committee decided not to accept the Co-option request from Shri. Ashish Shah from **Ambtronics Engineers Private Limited**, his expertise is not relevant to scope of Chemical Hazards Sectional Committee and may be considered by Industrial Gases Sectional Committee, CHD 06. However, request may be transferred to CHD 06, for consideration.

3.2.4.2 The Committee decided to Co-opt Shri. Amit Kumar in CHD 07: P3 and on the basis of his contribution in CHD 07: P3, he may be considered for co-opt in CHD Sectional Committee

3.2.4.2 The Committee decided not to accept the Co-option request from Shri. Manan Shah from **Ambtronics Engineers Private Limited**, his expertise is not relevant to scope of Chemical Hazards Sectional Committee and may be considered by Industrial Gases Sectional Committee, CHD 06. However, request may be transferred to CHD 06, for consideration.

3.2.4.4 The Committee decided to not accept the co-option request received from Ms. Surbhi Dahiya as her expertise is not relevant to scope of Chemical Hazards Sectional Committee. However, she may be

added to the additional mailing list so that all circulated documents are made available to her for submission of comments.

3.2.5 The Committee noted Item 3.2.5 of the Agenda.

3.2.6 The Committee noted Item 3.2.6 of the Agenda.

ITEM 4 ACTIONS ARISING OUT OF THE MINUTES OF PREVIOUS MEETING

4.1 IS 4544 : 2000 Ammonia - Code of safety.

- The Committee noted that the revised draft of IS 4544 has been received from Dr. Dipendu Das. The Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 after incorporating the editorial changes for 10 days . If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.
- The comments received on WC draft will be discussed and resolve by CHD 07: P3. However if no comments received on the WC draft it will be finalized and send for printing after seeking approval from the Chairperson.

4.2 IS 14200: 1994 Hydrogen Peroxide – Code of Safety.

- The Committee noted that the comments have been received from Shri Muraleekrishnan R, ISRO and inputs are awaited from Dr.Dadamudi Usharani, CFTRI. The Committee asked BIS Sectt. to seek inputs from Dr.Dadamudi Usharani, CFTRI and prepare the revised draft after incorporating the editorial changes.
- Further, the Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 for 10 days . If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.
- The comments received on WC draft will be discussed and resolve by CHD 07: P3. However if no comments received on the WC draft it will be finalized and send for printing after seeking approval from the Chairperson.

The Committee may **ADVISE**

4.3 IS 15548: 2005 Hydrofluorocarbon- Code of Safety.

- The Committee noted that the revised draft of IS 15548 has been received from Dr.Arati Bhatt, CFEES. The Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 after incorporating the editorial changes for 10 days . If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.

- The comments received on WC draft will be discussed and resolved by CHD 07: P3. However if no comments received on the WC draft it will be finalized and sent for printing after seeking approval from the Chairperson.

ITEM 5 INDIAN STANDARDS/AMENDMENTS PUBLISHED

5.1 IS 5208 : 2024 Acetic Acid — Code of Safety (First Revision)

- The Committee noted that IS 5208 : 2024 Acetic Acid — Code of Safety (*first revision*) has been published.

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

- The Committee noted that IS 6270 : 2024 Phenol — Code of Safety (*first revision*) has been published.

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

- The Committee noted that IS 4560 : 2024 Nitric Acid — Code of Safety (*first revision*) has been published.

6 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR FINALIZATION

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

- The Committee noted that the comments received on **CHD/07/20672 Nitrous Oxide — Code of Safety** have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document. Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on **CHD/07/25638** have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on **CHD/07/25639** have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on **CHD/07/25640** have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on CHD/07/25641 have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on CHD/07/25642 have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on CHD/07/25643 have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

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

- The Committee noted that the WC comments received on CHD/07/25644 have been deliberated, discussed and resolved in CHD 07: P6 and Panel has recommended for finalizing the document.
- Accordingly, the Committee finalized the draft and decided to send it for printing.

7 DRAFT STANDARDS/AMENDMENTS TO BE ISSUED INTO WIDE CIRCULATION

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

- The Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 after incorporating the editorial changes for 10 days. If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.
- The comments received on WC draft will be discussed and resolved by CHD 07: P3. However if no comments received on the WC draft it will be finalized and sent for printing after seeking approval from the Chairperson.

7.2 15738: 2007 Stable Bleaching Powder-Code of Safety

- The Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 after incorporating the editorial changes for 10 days. If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.
- The comments received on WC draft will be discussed and resolved by CHD 07: P3. However if no comments received on the WC draft it will be finalized and sent for printing after seeking approval from the Chairperson.

approval from the Chairperson.

7.3 IS 6953: 1973 Code of safety for bromine.

- The Committee asked BIS Sectt. to circulate draft to Committee members and Panel members of CHD 07: P3 after incorporating the editorial changes for 10 days . If comments received they will be taken by CHD 07:P3 else document will be issued into wide circulation after seeking approval from the Chairperson.
- The comments received on WC draft will be discussed and resolve by CHD 07: P3. However if no comments received on the WC draft it will be finalized and send for printin g after seeking approval from the Chairperson.

ITEM 8 DRAFT STANDARDS/AMENDMENTS UNDER PREPARATION

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

- The Committee once again requested GIA to prepare a working document on this subject in line with the standard format. The working document received will be circulated as preliminary draft among the Committee members for 21 days. The comments received will be deliberated in CHD 07: P6.

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

- The Committee once again requested GIA to prepare a working document on this subject in line with the standard format. The working document received will be circulated as preliminary draft among the Committee members for 21 days. The comments received will be deliberated in CHD 07: P6.

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

- The Committee once again requested GIA to prepare a working document on this subject in line with the standard format. The working document received will be circulated as preliminary draft among the Committee members for 21 days. The comments received will be deliberated in CHD 07: P6.

ITEM 9 NEW SUBJECTS

9.1 NWIP on Handbook of Loss Prevention

- The Committee DISBAND CHD 07: P1 and reconstitute CHD 07: P1 WG1 **Handbook on loss prevention due to Chemical Hazards** with following term of reference:
- **Term of Reference of CHD 07: P1 WG1 Handbook on loss prevention due to Chemical Hazards**

1. The primary objective of the panel is to review the draft document submitted by the proposer and make recommendations on whether there is a need to formulate a standard on the proposed subject. If it is deemed unnecessary, the panel should provide detailed justification based on the analysis of the subject matter, including any overlap with existing standards, lack of relevance, or any other reason.
 2. If the panel agrees that a standard should be formulated, it will prepare a working document outlining the scope, objectives, and framework for the proposed standard.
 3. The panel will be responsible for reviewing and disposing of all comments received on the draft during the public consultation or stakeholder engagement process.
- Additionally, the Committee also requested Panel member to first review the document provided by proposer and provide their recommendation regarding whether to formulate there is need to formulate standard on this subject or not. If not Panel also need to provide the same with detailed justification.

9.2 NWIP Sodium Cyanide Code of Safety

- The Committee decided to once again write to Shri Sheelendra Pratap Singh, IITR to provide working document on Sodium Cyanide Code of Safety. The draft received will be circulated as preliminary draft among the Committee members for 21 days. The comments received will be deliberated in CHD07: P3.

9.3 New Work Item Proposal on CHLORINE LEAKAGE KIT FOR TONNERS

The Committee asked BIS Sectt. to coordinate with Shri. H S Das, AMAI and Shri. Balasubrahmanyam, GIA to get list of manufacturer of this product. Further write to manufacturers to seek details or specification of chlorine leakage kit manufactured by them. Simultaneously constitute Panel under convenership of Shri. H S Das for preparing a working document on this subject.

ITEM 10 INTERNATIONAL ACTIVITIES.

10.1 Membership status of ISO/TC

- The Committee noted item **10.1** of the Agenda.

10.2.1 Registered Indian Experts

- The Committee noted item **10.2.1** of the Agenda.

10.2 Designation of experts on ISO Documents

- The Committee noted item **10.3** of the Agenda.

ITEM 11 DEMONSTRATION OF IR PORTAL

- The BIS Secretariat demonstrated the IR Portal to the Committee members and guided them on how to use the portal to view ISO ballots shared with them, submit their inputs, and express interest in becoming designated members for ballots. The Committee reviewed the ISO ballot list and nominated designated experts for the working documents (NP, NWIP, CD, DIS).

ITEM 12 PROGRAMME OF WORK (INCLUDING PERIODIC REVIEW OF INDIAN STANDARDS)

12.1 Programme of Work

- The Committee noted item **12.1** of the Agenda.

12.2 Review of Indian Standards

- The Committee decided to share the report on IS 4644, IS 8388 submitted interns to CHD 07: P7 for review and provide their recommendation on whether the revised standards may be issued into wide circulation or not.

ITEM 13 DATE AND PLACE OF NEXT MEETING

- The Committee decided to hold next meeting in end of November, 2024 in hybrid moe in New Delhi.

ITEM 14 VOTE OF THANKS

- The meeting concluded with a heartfelt vote of thanks to the Chairperson and Committee members.