

# BUREAU OF INDIAN STANDARDS

## MINUTES OF MEETING

### ENVIRONMENTAL MANAGEMENT SECTIONAL COMMITTEE, CHD 34 Thirty Second Meeting

**Day and Date** Friday, 28 June 2024  
**Time** 10.30 AM  
**Venue** Virtual Meeting (WebEx)

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**Chairperson** *Prof. S. K. Sharma, In personal capacity*

**Member-Secretary** *Mohit Garg, Scientist–C, BIS*

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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 chair and all the members to the meeting.

##### 1.2 Opening remarks by the Chairperson

The chairperson extended the warm welcome to all the conveners and the members joined the meeting and requested members to kindly provide their comments on the documents and ballots being circulated by the BIS.

#### ITEM 2 CONFIRMATION OF THE MINUTES OF THE 31<sup>st</sup> MEETING

The Committee confirmed the minutes as circulated vide email dated 01 April 2024.

#### ITEM 3 COMPOSITION AND SCOPE OF THE SECTIONAL COMMITTEE AND ITS PANELS

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

##### 3.2 Change in nominations:

- i. From IOCL, R&D Centre, Faridabad, Dr. Umish Srivastava shall now represent as primary member and Dr. Manoj Kumar Upreti as alternate member.
- ii. From CERC, Ahmedabad, Dr. Kartik Andharia shall represent as alternate member in place of Ms Divya Namboothiri.

##### 3.3 New nomination requests received:

- i. The committee approved the new nomination request received from Center for Study of Science, Technology and Policy (CSTEP), Bengaluru. Dr. Indu K. Murthy (Sector Head – Environment, Climate & Sustainability) will represent as principal member and Dr. Anjali Taneja (Senior Policy Specialist and Group Head - Sustainability) as alternate member.

### 3.4 New Working Group:

The committee has formed a new working group under CHD 34 as given below:

#### **Title: Framework for sector-specific sustainability guidelines WG, CHD 34: WG 1**

#### **Composition:**

<b>Sr. No.</b>	<b>Organization</b>	<b>Representative</b>
<b>i.</b>	In Personal Capacity	Shri Anil Jauhri ( <i>Convener</i> )
<b>ii.</b>	TATA Consultancy Services Ltd.	Shri Debasish Nath
<b>iii.</b>	Indian Institute of Management, Mumbai	Dr. Anju Singh
<b>iv.</b>	In Personal Capacity	Mrs. B Sandhya
<b>v.</b>	In Personal Capacity	Dr. S K Sharma

### **ITEM 4 Draft Standards/Amendments for Finalization**

#### **4.1 Documents recommended for finalization by CHD 34: SC 1 in its 18<sup>th</sup> meeting held on 01 March 2024**

**4.1.1** Revision of IS/ISO 14064 (Part 1): 2006 Greenhouse gases: Part 1 specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals [Doc. No. CHD 34/20719]

**4.1.2** Revision of IS/ISO 14064 (Part 3): 2006 Greenhouse gases: Part 3 specification with guidance for the validation and verification of greenhouse gas assertions [Doc. No. CHD 34/20733]

**4.1.3** Carbon Footprint of Products – Requirements and Guidelines for Quantification [Doc. No. CHD 34/18443]

The member secretary informed the committee that the above documents were also discussed in the previous meeting of CHD 34 held on 14 March 2024 and on the request of CII, it was decided to re-circulate the documents for another 2 weeks. Accordingly, the documents were circulated among the committee members for 2 weeks vide our email dated 31 May 2024. However, no technical comment was received during the period. The Committee finalized all above 3 documents for printing.

#### **4.2 Documents recommended for finalization by CHD 34: SC 2 in its 2<sup>nd</sup> meeting held on 05 March 2024**

- 4.2.1** Adoption of 14002-1:2019 Environmental management systems Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area Part 1: General [Doc. No. CHD 34/22987]
- 4.2.2** Adoption of 14002-2:2023 Environmental management systems Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area Part 2: Water [Doc. No. CHD 34/23001]
- 4.2.3** Adoption of ISO 14006: 2020 Environmental management systems Guidelines for incorporating eco-design [Doc. No. CHD 34/22988]
- 4.2.4** Adoption of ISO 14007: 2019 Environmental management systems Guidelines for determining environmental costs and benefits [Doc. No. CHD 34/22989]
- 4.2.5** Adoption of ISO 14008: 2019 Monetary valuation of environmental impacts and related environmental aspects [Doc. No. CHD 34/22990]
- 4.2.6** Adoption of ISO 14009: 2020 Environmental management systems Guidelines for incorporating material circulation in design and development [Doc. No. CHD 34/22991]
- 4.2.7** Adoption of ISO 14016: 2020 Environmental management Guidelines on the assurance of environmental reports [Doc. No. CHD 34/23021]
- 4.2.8** Revision of IS/ISO 14020: 2000 Environmental statements and programmes for products Principles and general requirements (Second Revision) [Doc. No. CHD 34/23019]
- 4.2.9** Adoption of ISO 14052: 2017 Environmental management Material flow cost accounting Guidance for practical implementation in a supply chain [Doc. No. CHD 34/22992]
- 4.2.10** Adoption of ISO 14053: 2021 Environmental management Material flow cost accounting Guidance for phased implementation in organizations [Doc. No. CHD 34/22993]
- 4.2.11** Adoption of ISO 14045: 2012 Environmental Management Ecoefficiency Assessment of Product Systems Principles Requirements and Guidelines [Doc. No. CHD 34/22429]
- 4.2.12** Adoption of ISO/TR 14073: 2017 Environmental management Water footprint Illustrative examples on how to apply ISO 14046 [Doc. No. CHD 34/22994]

The member secretary informed the committee that the above documents were also discussed in the previous meeting of CHD 34 held on 14 March 2024 and on the request of CII, it was decided to re-circulate the documents for another 4 weeks. Accordingly, the documents were circulated among the committee members for 4 weeks vide our email dated 31 May 2024. However, no technical comment was received during the period. The committee finalized all the above 12 documents for printing.

## **ITEM 5 Draft Standards under Wide Circulation**

### **5.1 Standards recommended by CHD 34: SC 1**

The member secretary informed the committee that the following documents were recommended by CHD 34: SC 1 for adoption and in the previous meeting of CHD 34, the committee decided to circulate these drafts for wide circulation for a period of 2 months. Accordingly, the National Foreword for the adoption of these documents were sent for WC and the last date for providing the comments/ views is indicated against each document. The committee requested members to go

through the documents and submit their comments before the due date through BIS e-standards portal. The URL to access the BIS portal is given below:

[https://www.services.bis.gov.in/php/BIS\\_2.0/](https://www.services.bis.gov.in/php/BIS_2.0/)

It was also mentioned by the chairperson that it is mandatory for the committee members to submit their comments on all P-Drafts and WC-Drafts through BIS portal. In case, members do not have any comments on the document then also it is required to be submitted through BIS portal. The member secretary displayed the portal and briefed the members on the procedure for submitting the comments through BIS portal. In case of facing any difficulties in using the portal may please be communicated to the member secretary.

**5.1.1 ISO 14068 (Part 1): 2023** Climate change management — Transition to net zero — Part 1: Carbon neutrality. [Last Date for Comments: **01-07-2024**]

**5.1.2 ISO 14083: 2023** Greenhouse gases — Quantification and reporting of greenhouse gas emissions arising from transport chain operations. [Last Date for Comments: **01-07-2024**]

**5.1.3 ISO 14091: 2021** Adaptation to climate change — Guidelines on vulnerability, impacts and risk assessment. [Last Date for Comments: **01-07-2024**]

**5.1.4 ISO/TS 14092: 2020** Adaptation to climate change — Requirements and guidance on adaptation planning for local governments and communities. [Last Date for Comments: **01-07-2024**]

**5.1.5 ISO 14093: 2020** Mechanism for financing local adaptation to climate change — Performance-based climate resilience grants — Requirements and guidelines. [Last Date for Comments: **01-07-2024**]

**5.1.6 ISO 14097: 2021** Greenhouse gas management and related activities — Framework including principles and requirements for assessing and reporting investments and financing activities related to climate change. [Last Date for Comments: **01-07-2024**]

## **5.2 Standards recommended by CHD 34: SC 2**

The member secretary informed the committee that the following documents were recommended by CHD 34: SC 2 for adoption and in the previous meeting of CHD 34, the committee decided to circulate these drafts for wide circulation for a period of 2 months. Accordingly, the National Foreword for the adoption of these documents were sent for WC and the last date for providing the comments/ views is indicated against each document. The committee requested members to go through the documents and submit their comments before the due date through BIS e-standards portal. The URL to access the BIS portal is given below:

[https://www.services.bis.gov.in/php/BIS\\_2.0/](https://www.services.bis.gov.in/php/BIS_2.0/)

It was also mentioned by the chairperson that it is mandatory for the committee members to submit their comments on all P-Drafts and WC-Drafts through BIS portal. In case, members do not have

any comments on the document then also it is required to be submitted through BIS portal. The member secretary displayed the portal and briefed the members on the procedure for submitting the comments through BIS portal. In case of facing any difficulties in using the portal may please be communicated to the member secretary.

**5.2.1 ISO 14017: 2020** Environmental management — Requirements with guidance for verification and validation of water statements. [Last Date for Comments: **01-07-2024**]

**5.2.2 ISO/TS 14048: 2002** Environmental management — Life cycle assessment — Data documentation format. [Last Date for Comments: **01-07-2024**]

**5.2.3 ISO 14055-1: 2017** Environmental management — Guidelines for establishing good practices for combatting land degradation and desertification — Part 1: Good practices framework. [Last Date for Comments: **01-07-2024**]

**5.2.4 ISO/TS 14074: 2022** Environmental management — Life cycle assessment — Principles, requirements and guidelines for normalization, weighting and interpretation. [Last Date for Comments: **01-07-2024**]

### **5.3 Standards recommended by CHD 34: SC 3**

**5.3.1 ISO/TR 27912:2016** Carbon dioxide capture — Carbon dioxide capture systems, technologies and processes. [Last Date for Comments: **20-06-2024**]

**5.3.2 ISO 27914:2017** Carbon dioxide capture, transportation and geological storage — Geological storage. [Last Date for Comments: **20-06-2024**]

**5.3.3 ISO/TR 27915:2017** Carbon dioxide capture, transportation and geological storage — Quantification and verification. [Last Date for Comments: **20-06-2024**]

**5.3.4 ISO 27916:2019** Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO<sub>2</sub>-EOR). [Last Date for Comments: **20-06-2024**]

**5.3.5 ISO 27917:2017** Carbon dioxide capture, transportation and geological storage — Vocabulary — Cross cutting terms. [Last Date for Comments: **20-06-2024**]

**5.3.6 ISO/TR 27918:2018** Lifecycle risk management for integrated CCS projects. [Last Date for Comments: **20-06-2024**]

**5.3.7 ISO 27919-1:2018** Carbon dioxide capture — Part 1: Performance evaluation methods for post-combustion CO<sub>2</sub> capture integrated with a power plant. [Last Date for Comments: **20-06-2024**]

**5.3.8 ISO 27919-2:2021** Carbon dioxide capture — Part 2: Evaluation procedure to assure and maintain stable performance of post-combustion CO<sub>2</sub> capture plant integrated with a power plant. [Last Date for Comments: **20-06-2024**]

**5.3.9 ISO/TR 27921:2020** Carbon dioxide capture, transportation, and geological storage — Cross Cutting Issues — CO<sub>2</sub> stream composition. [Last Date for Comments: **20-06-2024**]

**5.3.10 ISO/TR 27922:2021** Carbon dioxide capture — Overview of carbon dioxide capture technologies in the cement industry. [Last Date for Comments: **20-06-2024**]

**5.3.11 ISO/TR 27923:2022** Carbon dioxide capture, transportation and geological storage — Injection operations, infrastructure and monitoring. [Last Date for Comments: **20-06-2024**]

**5.3.12 ISO/TR 27925:2023** Carbon dioxide capture, transportation and geological storage — Cross cutting issues — Flow assurance. [Last Date for Comments: **20-06-2024**]

The committee noted that the above documents have completed the WC stage. It was decided to discuss these documents in the CHD 34: SC 3 Subcommittee scheduled to be held on 10th July at BIS-HQ, New Delhi in hybrid mode. Based on the recommendations of the subcommittee, the chairperson may approve the documents for printing.

## **5.4 ISO Documents on Circular Economy**

**5.4.1 ISO/FDIS 59004** Circular economy — Vocabulary, principles and guidance for implementation. [Last Date for Comments: **20-06-2024**]

**5.4.2 ISO/FDIS 59010** Circular economy — Guidance on the transition of business models and value networks. [Last Date for Comments: **20-06-2024**]

**5.4.3 ISO/FDIS 59020** Circular economy — Measuring and assessing circularity performance. [Last Date for Comments: **20-06-2024**]

**5.4.4 ISO/TR 59032** Circular economy — Review of existing value networks. [Last Date for Comments: **08-07-2024**]

The committee noted that three of the above documents have completed the WC stage while one of them is still in Wide Circulation. The committee requested members to go through the document and provide their comments through BIS portal. The portal may be accessed using the URL given below:

[https://www.services.bis.gov.in/php/BIS\\_2.0/](https://www.services.bis.gov.in/php/BIS_2.0/)

It was also decided to discuss these documents in the CHD 34: P14 Circular Economy Panel and based on the recommendations of the panel, the chairperson may approve the documents for printing.

## **ITEM 6 ACTIVITIES AT ISO**

International Organization for Standardization (ISO) is the apex standardization body with an exclusive mandate to prepare and propagate International Standards. The standard development is carried through a number of technical committees which has a defined structure including Secretariat (held by a member body of ISO). The Bureau of Indian Standards, the National

Standards Body of the country represents India on ISO. The CHD 34, on behalf of BIS, holds the p-membership of the following ISO Technical Committees:

- i. **ISO/TC 207** *Environmental Management*;
- ii. **ISO/TC 265** *Carbon dioxide capture, transportation, and geological storage*;
- iii. **ISO/TC 323** *Circular Economy*;

## 6.1 Documents under development at ISO

The member secretary informed the committee that following things shall be kept in mind while participating in the ISO meetings:

- i. Before participating in any ISO meeting, a written submission on stand on India on the agenda points is necessary and shall be discussed in the briefing meeting before attending any ISO meeting.
- ii. It is mandatory for the members to submit BIS a report after any WG/SC/TC meeting.
- iii. A Di-briefing meeting shall be organized after the ISO meeting to inform the members of the status of participation and to frame the future course of action.

Sl. No.	Document under development	Current Stage	ISO Committee & Expert Nominated	Decision of the committee
ISO/TC 207/SC 1 <i>Environmental Management Systems</i>				
1.	<b>ISO 14001: 2015/CD Amd 2</b> <i>Environmental management systems — Requirements with guidance for use — Amendment 2</i>	Resolving of CD Comments	ISO/TC 207/SC 1/WG 15 Mr. Debasish Nath Mr. Barun Das (MSCD, BIS) Mr. Mohit Garg (Doc Monitor)	Shri Debasish Nath apposed the committee of the current status of the amendment and informed that it might be possible that a ballot will be launched by ISO/TC 207/SC 1 for converting the amendment to the revision. The committee decided that the amendment requires discussion in CHD 34: SC 2 and the subcommittee shall be prepared with our response regarding conversion of amendment to revision.
2.	<b>ISO/CD 14002-3</b> <i>Environmental management systems — Guidelines for using ISO 14001 to address environmental</i>	Resolving of CD Comments	ISO/TC 207/SC 1/WG 11 Dr. Anju Singh	The committee noted that there is an issue with regard to scope 4 (avoided emissions)

	<i>aspects and conditions within an environmental topic area — Part 3: Climate</i>		Mrs. B. Sandhya Mr. Rajiv Bhatnagar Shri Mohit Garg (Doc Monitor)	in ISO 14002 series of documents.  The committee requested CHD 34: SC 2 to discuss the issue in detail and frame our stand and also try to coordinate with countries having same opinion.
3.	<b>ISO/AWI 14002-4</b> <i>Environmental management systems — Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area — Part 3: Resources and Waste</i>	WD under development		
4.	<b>ISO/CD 14054</b> <i>Natural Capital Accounting for Organizations — Specification</i>	CD referred back to WG	ISO/TC 207/SC 1/WG 14  Dr. Anju Singh Shri Mohit Garg (Doc Monitor)	The committee agreed to Dr. Anju's proposal for nominating Dr. Ranjini, finance faculty from IIM Mumbai.  The committee also decided to co-opt her in CHD 34: SC 2.
<b>ISO/TC 207/SC 2 Environmental auditing and related practices</b>				
5.	<b>ISO/CD 14019-1</b> <i>Validation and verification of sustainability information — Part 1: General principles and requirements</i>	CD Comments resolved	ISO/TC 207/SC 2/JWG1 with CASCO Shri A. S. Bhatnagar Shri Rajib Debnath Shri Ajay Kumar Sharma Shri Mohit Janoiya Shri Mohit Garg Shri Rajeev Sharma	The member secretary informed the committee that recently a 3 member delegation (Shri A S Bhatnagar, Shri Mohit Garg, Shri Ajay Kumar Sharma) has attended the WG meeting held in Italy from 10-14 June 2024 to discuss the comments received during the CD stage. He also informed the committee that most of the comments made by India was accepted during the discussion and the documents were approved for DIS.  Keeping in view the importance of the subject, the committee recommended to include Ms Shobha Hegde
6.	<b>ISO/CD 14019-2</b> <i>Validation and verification of sustainability information — Part 1: Verification process</i>	CD Comments resolved		
7.	<b>ISO/CD 14019-4</b> <i>Validation and verification of sustainability information — Part 4: Requirements for bodies providing validation and verification</i>	CD Comments resolved		



				and ACBI to further discuss these documents and frame a clear view point of India.
ISO/TC 207/SC 3 <i>Environmental labelling</i>				
8.	<b>Revision of ISO 14021:2016</b> <b>ISO/WD 14021</b> <i>Environmental statements and programmes for products — Self-declared claims</i>	WD under development	ISO/TC 207/SC 3/WG 10 Mr. Mohit Garg (Doc. Monitor)	The committee noted that these are important documents and India should participate in the development of these documents at ISO.  Dr. R K Singh informed the
9.	<b>Revision of ISO 14024:2018</b> <b>ISO/CD 14024</b> <i>Environmental statements and programmes for products — Ecolabels</i>	In CD Stage Last date of Comments: 04/09/2024	ISO/TC 207/SC 3/WG 11 Mr. Mohit Garg (Doc. Monitor)	committee that a meeting of CHD 34: P5 Eco-Labeling Panel has been scheduled for 19th July 2024 to discuss these documents in detail and to decide upon the participation of India.
10.	<b>Revision of ISO 14025:2006</b> <b>ISO/CD 14025</b> <i>Environmental statement and programmes for products — Environmental product declarations</i>	In CD Stage Last date of Comments: 06/09/2024	ISO/TC 207/SC 3/WG 12 Mr. Mohit Garg (Doc. Monitor)	Shri Anil Jauhri recommended to include Shri Venkatagiri from CII who is looking after an eco-labelling scheme run by CII and also to include relevant person from MoEFCC who deals with ECO-MARK scheme.
ISO/TC 207/SC 4 <i>Environmental performance evaluation</i>				
11.	<b>ISO/AWI 14035</b> <i>Environmental technology verification — ETV — Guidance to implement ISO 14034</i>	WD under development	ISO/TC 207/SC 4/WG 5 Mr. Mohit Garg (Doc. Monitor)	The committee agreed to the suggestion of Dr. Anju Singh to nominate Dr. Ruchita Gupta from IIM Mumbai. The committee also co-opted her in the ETV Panel under CHD 34: SC 2.
ISO/TC 207/SC 5 <i>Life cycle assessment</i>				
12.	<b>Revision of ISO/TS 14071: 2014</b> <b>ISO/FDIS 14071</b>	FDIS ballot to be	ISO/TC 207/SC 5/WG 12	The committee requested the nominated experts to prepare

	<i>Environmental management — Life cycle assessment — Critical review processes and reviewer competencies: Additional requirements and guidelines to ISO 14044:2006</i>	launched soon	Dr. Anju Singh Shri Anand Bohra Mrs. B. Sandhya Shri Mohit Garg	a report on the participation of India in the development of ISO 14071 and ISO 14072 covering following points: i. Participation of India in the WG meetings. ii. Status of comments made by India during the meeting or through ballots. iii. Suitability of the standards for adoption in Indian context and importance of the same. The report may be discussed in CHD 34: SC 2 and a decision shall be taken by the subcommittee regarding adoption. The report will be circulated along with the draft National Forewords as P-Draft for 21 days based on the recommendation of the subcommittee and approval of the chairperson.
13.	<i>Revision of ISO/TS 14072: 2014</i> <b>ISO/FDIS 14072</b> <i>Environmental management — Life cycle assessment — Requirements and guidelines for organizational life cycle assessment</i>	FDIS ballot to be launched soon		
14.	<b>ISO/FDIS 14075</b> <i>Environmental management — Principles and framework for social life cycle assessment</i>	FDIS ballot to be launched soon	ISO/TC 207/SC 5/WG 15 Dr. Anju Singh Shri V S Mathur Shri Mohit Garg	Same as baove.
15.	<b>ISO/CD TS 14076</b> <i>Eco-Technoeconomic Analyses: Principles, requirements and guidelines</i>	Resolving CD Comments	ISO/TC 207/SC 5/WG 16 Mr. Mohit Garg (Doc. Monitor)	The committee agreed to the suggestion of Dr. Anju Singh to nominate Dr. Ruchita Gupta from IIM Mumbai. The committee also co-opted her in the ETV Panel under CHD 34: SC 2.
16.	<b>ISO/FDIS 59014</b> Environmental management and circular economy — Sustainability and traceability of secondary	In FDIS Stage	ISO/TC 207/SC 5/JWG 14 Prof Sadhan K Ghosh Dr. Anju Singh	It was decided that a VC meeting will be held for the nominated experts on 16th July 2024 at 11.00 AM to

	materials recovery — Principles and requirements	Last date of Comments: 14/08/2024	Dr S K Sharma Shri Mohit Garg	prepare a stand of India regarding adoption.
ISO/TC 207/SC 7 <i>Greenhouse gas and climate change management and related activities</i>				
17.	<b>ISO/AWI 14060</b> Net Zero Aligned Organizations	In Working Draft Stage	ISO/TC 207/SC 7/WG 18 Mr. Mohit Garg (Doc. Monitor)	The committee requested Shri V B Pant to prepare a note regarding implication of this standard on India by 15 July 2024 based on which the chairman can approve his nominations for the WG. It was also decided to discuss the subject in CHD 34: SC 1 and take interest of members wants to participate in the development of this standard. The committee further added that the nominations will be approved based on the written submissions provided by the members.
18.	<b>ISO/DIS 14064-1:2018/Amd 1</b> Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals — Amendment 1	DIS Stage Last Date of Comments: 25/07/2024	ISO/TC 207/SC 7/WG 4  Shri V B Pant Shri Mohit Garg Shri Manoj Borekar  Shri Rohit Kumar Ms Veena Vadini Puri Expert to be nominated by JSW and FICCI	The committee requested the nominated experts to prepare a report regarding the:  i. Stand of India on AMD 1 to ISO 14064-1 which will help in formulating comments for DIS ballot.  ii. Stand of India on ISO/TS 14064-4.  The reports may be discussed in CHD 34: SC 1 meeting for further actions.
19.	<b>ISO/CD TS 14064-4</b> Greenhouse gases — Part 4: Quantification and reporting of greenhouse gas emissions for organizations — Guidance for the application of ISO 14064-1	CD ballot closed		
20.	<b>ISO/WD 14064-5</b> Greenhouse gas management — Part 5: Guidelines for the use of remote methods in conducting	WD Under Development	ISO/TC 207/SC 7/JWG 6 Ms Shobha Hegde Shri Mohit Garg	The committed noted the experts nominated in the WG.

	verification and validation greenhouse gas statements		Shri Manoj Borekar Shri Rohit Kumar Ms Veena Vadini Puri	
21.	<b>ISO/AWI 14070</b> Greenhouse Gas (GHG) Emission Measurements in Urban Environments — Part 1: GHG Concentration Measurements in Urban Atmospheres with Surface-Based Observing Networks	New project approved	ISO/TC 207/SC 7/WG 17 Mr. Mohit Garg (Doc. Monitor)	The committee agreed to the proposal of Dr. Anju Singh to nominate Dr. Hemant Bherwani from NEERI. She also promised to share the contact details.  The committee decided to co-opt him in CHD 34: SC 1.  The committee further requested member secretary to write to NPL for nominating an expert.
22.	<b>ISO/AWI TR 14082</b> <i>Radiative Forcing Management— Guidance for the quantification and reporting of radiative forcing-based climate footprints and mitigation efforts</i>	WD Under Development	ISO/TC 207/SC 7/WG 13 Mr. Mohit Garg (Doc. Monitor)	The committee requested BIS secretariat to write to Geological Survey of India, Indian Meteorological Department, and National Physical Laboratory for their participation.
<b>ISO/TC 265 Carbon dioxide capture, transportation, and geological storage</b>				
23.	<b>Revision of ISO 27913: 2016</b> <b>ISO/FDIS 27913</b> <i>Carbon dioxide capture, transportation and geological storage — Pipeline transportation systems</i>	FDIS Stage Last Date of Comments: 06/08/2024	ISO/TC 265/WG 2	The committee directed CHD 34: SC 3 to discuss these documents in the subcommittee and prepare a stand of India regarding the adoption of these documents.
24.	<b>Revision of ISO 27914: 2017</b> <b>ISO/CD 27914</b> <i>Carbon dioxide capture, transportation and geological storage — Geological storage</i>	CD Ballot closed	ISO/TC 265/WG 3 Prof Vikram Vishal Dr S K Sharma Shri Mohit Garg	It was decided to hold a meeting of CHD 34: SC 3 on 10th July 2024 in hybrid mode at BIS-HQ, New Delhi.
25.	<b>Revision of ISO 27916: 2019</b> <b>ISO/AWI 27916</b>	WD under development	ISO/TC 265/WG 6 Dr S K Sharma	

	Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO <sub>2</sub> -EOR) <b>ISO/CD DTR 27926</b> <i>Carbon dioxide capture, transportation and geological storage — Carbon dioxide enhanced oil recovery (CO<sub>2</sub>-EOR) — Transitioning from EOR to storage</i>	DTR Ballot to be launched soon	Shri Gaurav Kumar Mishra Prof Vikram Vishal Shri Mohit Garg	
26.	<b>ISO/AWI 27917</b> Carbon dioxide capture, transportation and geological storage — Vocabulary — Cross cutting terms	WD under development	ISO/TC 265/WG 5 Dr S K Sharma Shri Rahul Buswala Shri Mohit Garg	Same as above
27.	<b>ISO/DIS 27927</b> <i>Carbon dioxide capture, transportation and geological storage — Key performance parameters and characterization methods of absorption liquids for post-combustion CO<sub>2</sub> capture</i>	In DIS Stage Last Date of Comments: 27/08/2024	ISO/TC 265/WG 1  Shri Swaroop Banerjee Dr S K Sharma Shri Mohit Garg	Same as above
28.	<b>ISO/CD 27928</b> <i>Carbon dioxide capture, transportation and geological storage — Performance evaluation methods for CO<sub>2</sub> capture plants connected with CO<sub>2</sub> intensive plants</i>	CD ballot closed	Shri Swaroop Banerjee Dr S K Sharma Shri Mohit Garg	Same as above
29.	<b>ISO/DTR 27929</b> <i>Transportation of CO<sub>2</sub> by ship</i>	DTR ballot to be launched soon	ISO/TC 265/WG 7 Dr S K Sharma Shri Mohit Garg	Same as above
ISO/TC 323 <i>Circular economy</i>				

30.	<b>ISO/CD TR 59031</b> <i>Circular economy – Performance-based approach – Analysis of cases studies</i>	CD ballot will be released soon	ISO/TC 323/WG 4 Mrs Shalini Goyal Bhalla Dr J Sesha Srinivas Dr S K Sharma Shri Mohit Garg	The committee directed CHD 34: P14 Circular Economy Panel to hold a meeting as soon as the CD ballot is launched for ISO TR 59031 and FDIS/DIS ballot is launched for ISO 59040 to formulate the comments of India.
31.	<b>ISO/DIS 59040</b> <i>Circular Economy — Product Circularity Data Sheet</i>	DIS ballot closed	ISO/TC 323/WG 5 Shri Manoj Belgaonkar Dr S K Sharma Shri Mohit Garg	

## 6.2 Revision of Guide 84 Guide for addressing Climate Change in Standards

The member secretary informed the committee that it has been decided at ISO/TMB to revise the ISO/Guide 84: 2020 “Guide for addressing climate change in standards” in line with the ISO London Declaration 2021 and recently published standard on Carbon Neutrality (ISO 14068-1) and IWA 42. The revised working draft has been circulated for comments through our email dated 24 June 2024 and the same is attached below with a last date to provide comments as 03 July 2024.



ISO-TMBG-CCCC-TG  
5\_N6\_ISO Guide 84 i

The committee requested BIS secretariat to re-circulate the document for commenting and requested members to kindly go through the draft especially the text in red font and submit their comments/views.


## 6.3 Upcoming Meetings of ISO

Sl. No.	ISO Committee	Meeting Details	Experts Nominated
i.	ISO/TC 323/WG 5	08 - 11 July 2024 (VC)	Dr. S K Sharma – HoD Shri Manoj Belgaonkar, Siemens Shri Mohit Garg

The committee approved the participation as indicated above.

## 6.4 Previous Participation in the ISO Meetings since last meeting of CHD 34

The committee noted the participation of the members in the ISO meetings as given below and requested all the experts to submit a brief report o BIS Secretariat after attending any meeting of ISO.

Sl. No.	ISO Committee	Meeting Details & Experts Attended	Key Highlights
i.	ISO/TC 207/SC 2/JWG 1	10 - 14 June 2024 Milan, Italy Shri A S Bhatnagar, BIS (HoD, Physical) Shri Mohit Garg, BIS (Physical) Shri Ajay Sharma, QCI (VC)	<ul style="list-style-type: none"> <li>Resolution of the comments received on CD ballot of ISO 14019-1, 14019-2, &amp; 14019-4.</li> </ul>
ii.	ISO/TC 207/SC 1/WG 15	7 <sup>th</sup> meeting held on 13 to 17 May 2024 Shri Debashish Nath, TCS (VC)	<ul style="list-style-type: none"> <li>Resolution of comments received on CD.</li> <li>Report attached below:    D_Nath Report.pdf</li> </ul>
iii.	ISO/TC 323	Interim for 7 <sup>th</sup> plenary meeting held on 02 May 2024 Shri V S Mathur (VC) Shri Mohit Garg (VC)	<ul style="list-style-type: none"> <li>WG presented reports on status of ISO 59014 and ISO 59040.</li> <li>FDIS has been launched for ISO 59014.</li> <li>Decision is yet to be taken on ISO 59040 for 2<sup>nd</sup> DIS or FDIS.</li> </ul>

### 6.5 New International Relations Portal of BIS

The member secretary informed the committee that BIS has launched a new portal for effectively managing and streamlining all the works related to international relations such as balloting, delegation proposals for attending ISO meetings, etc. The portal may be accessed through International Relations (IR) tile coming after the login in BIS standards portal. The demonstration of the portal could not be held due to some server issues. The member secretary requested the members to kindly go through the portal to get familiarize with the provisions available in the portal.

### 6.6 Seminar on GHG Quantification & Verification (ISO 14064).

The member secretary proposed to hold a half-day seminar along with the next CHD 34 meeting. The committee agreed to the proposal and directed CHD 34: SC 1 to finalize the details of the

seminar like speakers, time and venue in its next meeting scheduled for 15<sup>th</sup> July, Monday VC Meeting at 10.30 AM.

#### **ITEM 7 DATE AND PLACE OF NEXT MEETING**

As per the quarterly meeting calendar, the next meeting of CHD 34 sectional committee may be held in first/second week of September 2024 along with the seminar to discuss & finalize the documents that are under WC.

#### **ITEM 8 ANY OTHER BUSINESS**

**8.1** Shri Anil Jauhri proposed to develop a **generic guidance on sustainability practices to provide a framework within which then sector specific guidance can be developed** - healthcare, hotels, airports, factories of different sectors like pharmaceuticals, food etc. The following explanation was provided:

“Sustainability is in vogue today and the whole world is talking about it. There is a need to approach standards development on sustainability in a structured manner.

Given that India is home to a large majority of small businesses, be it manufacturing or services like healthcare or hotels etc, these businesses need guidance in adopting sustainability practices which may differ from sector to sector even though broadly the same kind of issues may need to be addressed - energy efficiency, pollution control, water conservation etc. These businesses may want to start a journey into sustainability but do not know where to start and how to go about it.

I suggest that we should develop a **generic guidance on sustainability practices to provide a framework within which then sector specific guidance can be developed** - healthcare, hotels, airports, factories of different sectors like pharmaceuticals, food etc.

These can be done by joint panels of this Committee and respective technical committees in BIS in different departments.

I may add that I have been in touch with some technical depts in BIS on the issue of sector specific guidances and was able to guide one healthcare organization to propose draft to MHD for sustainable practices in healthcare which has been taken up.

This Committee should provide generic sustainability experts whereas domain experts can come from respective technical committees.

I hope the above approach can be discussed in the coming meeting so that BIS develops sustainability practices in various sectors in a structured and cohesive manner.”

The committee agreed to his proposal and created a WG having the composition as given in 3.4. It was also decided to hold the first meeting of the WG on 15<sup>th</sup> July 2024 through VC at 3.00 PM. The committee also requested Shri Anil Jauhri to circulate a note before the meeting apprising the members of the high level structure of the document or any approaches that may be discussed in the WG meeting.

#### **ITEM 9 VOTE OF THANKS**

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



## ANNEX – I

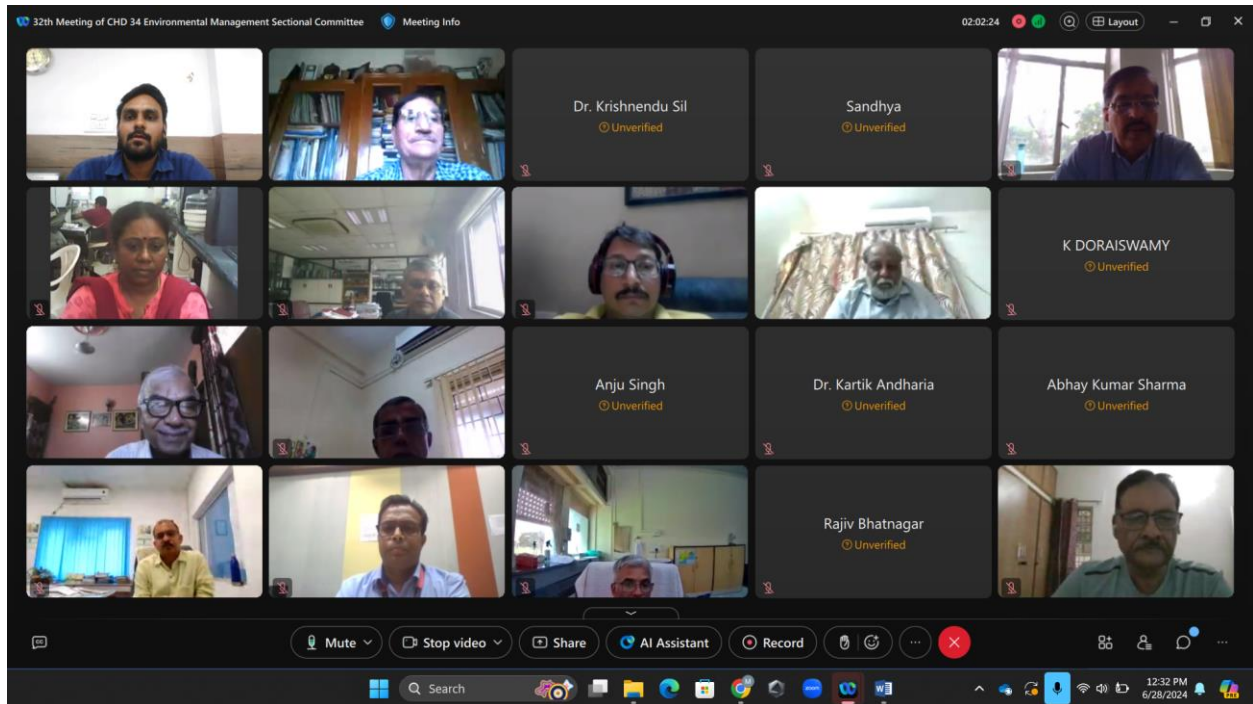
### PARTICIPANTS IN THE 32<sup>nd</sup> MEETING OF CHD 34

**Chairperson:** Prof. S. K. Sharma, In Personal Capacity

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

<b>Sl. No.</b>	<b>Organization</b>	<b>Representative</b>
1	Association of Certification Bodies of India	Shri K. Doraiswamy
2	Bhabha Atomic Research Centre, Mumbai	Dr. A. Vinod Kumar
3	Central Pollution Control Board	Shri G Thirumurthy
4	Consumer Education and Research Centre, Ahmedabad	Dr. Kartik Andharia
5	CSIR - Central Leather Research Institute, Chennai	Dr S Swarnalatha
6	Environment Protection Training and Research Institute, Hyderabad	Dr J. Sessa Srinivas
7	Indian Chemical Council, Mumbai	Dr Krish Nendu Sil
8	Indian Oil Corporation Ltd., Faridabad	Dr. Umish Srivastava/ Dr. Manoj Kumar Upreti
9	JK Tyre & Industries Ltd.	Dr Rajiv Bhatnagar
10	National Council for Cement and Building Materials, Faridabad	Shri Anand Bohra Shri Prateek Sharma
11	RITES Ltd, Gurgaon	Shri Abhay Kumar Sharma
12	Tata Consultancy Services Limited, Mumbai	Mr. Debasish Nath
13	The Fertiliser Association of India, New Delhi	Shri Manish Goswami Shri J Harihara Dr. D D Chaturvedi
14	In Personal Capacity	Prof. Sadhan K Ghosh
15	In Personal Capacity	Shri V S Mathur
16	Convener - CHD 34: SC 2	Dr. Anju Singh (IIM Mumbai)
17	Convener – CHD 34: P5	Dr R K Singh
18	Convener – CHD 34: P15	Shri Anil Jauhri

19	Member, CHD 34: SC 3	Prof. Vikram Vishal (IIT Bombay)
20	Member, CHD 34: SC 2	Mrs B Sandhya



32th Meeting of CHD 34 Environmental Management Sectional Committee Meeting Info 02:02:40

Dr. Krishnendu Sil  
Unverified

Rajiv Bhatnagar  
Unverified

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