

BUREAU OF INDIAN STANDARDS

AGENDA

ENVIRONMENTAL MANAGEMENT SECTIONAL COMMITTEE, CHD 34 Thirty Second Meeting

Day and Date	Friday, 28 June 2024
Time	10.30 AM
Venue	Virtual Meeting (WebEx)
Meeting Link	https://bismanak.webex.com/bismanak/j.php?MTID=m3dbe48f2aa3b31916bbe9de555235ee6
Meeting ID	2518 144 1460
Password	meeting@123

Chairperson	<i>Prof. S. K. Sharma, In personal capacity</i>
Member-Secretary	<i>Mohit Garg, Scientist–C, BIS</i>

ITEM 1 OPENING OF THE MEETING

- 1.1 Welcome by Bureau of Indian Standards
- 1.2 Opening remarks by the Chairperson

ITEM 2 CONFIRMATION OF THE MINUTES OF THE 30th MEETING

The minutes of the 31st meeting of Environmental Management Sectional Committee, CHD 34 held virtually on 14th March 2024 through WebEx were circulated vide our letter no. CHD 34/A-2.31 dated 01 April 2024. No comments were received on the recordings.

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

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

- 3.1 The scope & composition of the Committee is given at **Annex I**.

The Committee may **REVIEW & CONFIRM**.

- 3.2 **Change in nominations:**

- i. IOCL, R&D Centre, Faridabad has nominated Dr. Umish Srivastava as primary member and Dr. Manoj Kumar Upreti as alternate member.

The Committee may **NOTE**.

3.3 New nomination requests received:

- i. A new nomination request has been received from Center for Study of Science, Technology and Policy (CSTEP), Bengaluru. CSTEP has proposed to nominate Dr. Indu K. Murthy (Sector Head – Environment, Climate & Sustainability) as principal member and Dr. Anjali Taneja (Senior Policy Specialist and Group Head - Sustainability) as alternate member.

The Committee may **APPROVE**.

ITEM 4 Draft Standards/Amendments for Finalization

4.1 Documents recommended for finalization by CHD 34: SC 1 in its 18th 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 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 may **FINALIZE** for printing.

4.2 Documents recommended for finalization by CHD 34: SC 2 in its 2nd 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 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 may **FINALIZE** for printing.

ITEM 5 Draft Standards under Wide Circulation

5.1 Standards recommended by CHD 34: SC 1

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**]

The above documents were approved for wide circulation in the last meeting of CHD 34 and accordingly, the draft National Foreword was sent for wide circulation for a period of 2 months

with last date of commenting as indicated above against each document. The members are requested to go through the documents and provide their comments/views through BIS e-portal.

The Committee may **NOTE**.

5.2 Standards recommended by CHD 34: SC 2

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**]

The above documents were approved for wide circulation in the last meeting of CHD 34 and accordingly, the draft National Foreword was sent for wide circulation for a period of 2 months with last date of commenting as indicated above against each document. The members are requested to go through the documents and provide their comments/views through BIS e-portal.

The Committee may **NOTE**.

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 (CO₂-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 CO₂ 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 CO₂ 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 — CO₂ 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 above documents were approved for wide circulation in the last meeting of CHD 34 and accordingly, the draft National Foreword was sent for wide circulation for a period of 2 months with last date of commenting as indicated above against each document. The members are requested to go through the documents and provide their comments/views through BIS e-portal.

The Committee may **NOTE**.

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 above documents were approved for wide circulation in the last meeting of CHD 34 and accordingly, the draft National Foreword was sent for wide circulation for a period of 2 months with last date of commenting as indicated above against each document. The members are requested to go through the documents and provide their comments/views through BIS e-portal.

The Committee may **NOTE**.

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

Sl. No.	Document under development	Current Stage	ISO Committee & Expert Nominated
<i>ISO/TC 207/SC 1 Environmental Management Systems</i>			
1.	ISO 14001: 2015/CD Amd 2 <i>Environmental management systems — Requirements with guidance for use — Amendment 1</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)
2.	ISO/CD 14002-3 <i>Environmental management systems — Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area — Part 3: Climate</i>	Resolving of CD Comments	ISO/TC 207/SC 1/WG 11 Dr. Anju Singh Mrs. B. Sandhya
3.	ISO/AWI 14002-4 <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	Mr. Rajiv Bhatnagar Shri Mohit Garg (Doc Monitor)

4.	ISO/CD 14054 <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) One Expert from financial institution.
ISO/TC 207/SC 2 Environmental auditing and related practices			
5.	ISO/CD 14019-1 <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
6.	ISO/CD 14019-2 <i>Validation and verification of sustainability information — Part 1: Verification process</i>	CD Comments resolved	
7.	ISO/CD 14019-4 Validation and verification of sustainability information — Part 4: Requirements for bodies providing validation and verification	CD Comments resolved	
ISO/TC 207/SC 3 Environmental labelling			
8.	Revision of ISO 14021:2016 ISO/WD 14021 <i>Environmental statements and programmes for products — Self-declared claims</i>	WD under development	ISO/TC 207/SC 3/WG 10
9.	Revision of ISO 14024:2018 ISO/CD 14024 <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
10.	Revision of ISO 14025:2006 ISO/CD 14025	In CD Stage Last date of Comments: 06/09/2024	ISO/TC 207/SC 3/WG 12

	<i>Environmental statement and programmes for products — Environmental product declarations</i>		
ISO/TC 207/SC 4 Environmental performance evaluation			
11.	ISO/AWI 14035 <i>Environmental technology verification — ETV — Guidance to implement ISO 14034</i>	WD under development	ISO/TC 207/SC 4/WG 5 Experts to be nominated from the ETV panel.
ISO/TC 207/SC 5 Life cycle assessment			
12.	<i>Revision of ISO/TS 14071: 2014</i> ISO/FDIS 14071 <i>Environmental management — Life cycle assessment — Critical review processes and reviewer competencies: Additional requirements and guidelines to ISO 14044:2006</i>	FDIS ballot to be launched soon	ISO/TC 207/SC 5/WG 12 Dr. Anju Singh Shri Anand Bohra Mrs. B. Sandhya Shri Mohit Garg
13.	<i>Revision of ISO/TS 14072: 2014</i> ISO/FDIS 14072 <i>Environmental management — Life cycle assessment — Requirements and guidelines for organizational life cycle assessment</i>	FDIS ballot to be launched soon	
14.	ISO/FDIS 14075 <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
15.	ISO/CD TS 14076 <i>Eco-Technoeconomic Analyses: Principles, requirements and guidelines</i>	Resolving CD Comments	ISO/TC 207/SC 5/WG 16 Experts to be nominated from the ETV panel.
16.	ISO/FDIS 59014	In FDIS Stage	ISO/TC 207/SC 5/JWG 14

	Environmental management and circular economy — Sustainability and traceability of secondary materials recovery — Principles and requirements	Last date of Comments: 14/08/2024	Prof Sadhan K Ghosh Dr. Anju Singh Dr S K Sharma Shri Mohit Garg
ISO/TC 207/SC 7 <i>Greenhouse gas and climate change management and related activities</i>			
17.	ISO/AWI 14060 Net Zero Aligned Organizations	In Working Draft Stage	ISO/TC 207/SC 7/WG 18 Shri V B Pant
18.	ISO/DIS 14064-1:2018/Amd 1 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
19.	ISO/CD TS 14064-4 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.	ISO/WD 14064-5 Greenhouse gas management — Part 5: Guidelines for the use of remote methods in conducting verification and validation greenhouse gas statements	WD Under Development	ISO/TC 207/SC 7/JWG 6 Ms Shobha Hegde Shri Mohit Garg Shri Manoj Borekar Shri Rohit Kumar Ms Veena Vadini Puri
21.	ISO/AWI 14070 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
22.	ISO/AWI TR 14082 <i>Radiative Forcing Management— Guidance for the quantification and</i>	WD Under Development	ISO/TC 207/SC 7/WG 13

	<i>reporting of radiative forcing-based climate footprints and mitigation efforts</i>		BIS secretariat to write to Geological Survey of India, Indian Meteorological Department, and National Physical Laboratory for their participation.
<i>ISO/TC 265 Carbon dioxide capture, transportation, and geological storage</i>			
23.	Revision of ISO 27913: 2016 ISO/FDIS 27913 <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
24.	Revision of ISO 27914: 2017 ISO/CD 27914 <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
25.	Revision of ISO 27916: 2019 ISO/AWI 27916 Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO ₂ -EOR) ISO/CD DTR 27926 <i>Carbon dioxide capture, transportation and geological storage — Carbon dioxide enhanced oil recovery (CO₂-EOR) — Transitioning from EOR to storage</i>	WD under development DTR Ballot to be launched soon	ISO/TC 265/WG 6 Dr S K Sharma Shri Gaurav Kumar Mishra Prof Vikram Vishal Shri Mohit Garg
26.	ISO/AWI 27917 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
27.	ISO/DIS 27927	In DIS Stage	ISO/TC 265/WG 1

	<i>Carbon dioxide capture, transportation and geological storage — Key performance parameters and characterization methods of absorption liquids for post-combustion CO₂ capture</i>	Last Date of Comments: 27/08/2024	Shri Swaroop Banerjee Dr S K Sharma Shri Mohit Garg
28.	ISO/CD 27928 <i>Carbon dioxide capture, transportation and geological storage — Performance evaluation methods for CO₂ capture plants connected with CO₂ intensive plants</i>	CD ballot closed	
29.	ISO/DTR 27929 <i>Transportation of CO₂ by ship</i>	DTR ballot to be launched soon	ISO/TC 265/WG 7 Dr S K Sharma Shri Mohit Garg
ISO 323 Circular economy			
30.	ISO/CD TR 59031 <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 Sessa Srinivas Dr S K Sharma Shri Mohit Garg
31.	ISO/DIS 59040 <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

The Committee may **REVIEW & DECIDE** for participation.

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

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. 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 r


The Committee may **REVIEW & PREPARE** Comments.

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 Shri Mohit Garg

The Committee may **APPROVE** for participation.

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

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

The Committee may **NOTE**.

6.5 New International Relations Portal of BIS

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. Member Secretary will display and introduce the portal.

The Committee may **NOTE**.

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 fourth week of August 2024 to discuss & finalize the documents that are under WC.

The Committee may **DECIDE**.

ITEM 8 ANY OTHER BUSINESS

ITEM 9 VOTE OF THANKS

Annex –I A **(Item 3.1)**

Scope and Composition of Environmental Management Sectional Committee, CHD 34

a) **SCOPE:** To formulate Indian Standards in the field of Environment Management tools and systems excluding:

- test methods of pollutant
- setting limit values regarding pollutants of effluents
- setting environmental performance levels
- Standardization of products

b) International Liaison

- To coordinate with the work of
 - ISO/TC 207 Environmental Management
 - ISO/TC 265 Carbon Capture, Storage and Transportation
 - ISO/TC 323 Circular Economy

DETAILS OF LAST 3 MEETINGS

No. of Meeting	Date	Place
29 th	18-07-2023	Virtual Conference
30 th	13-10-2023	Virtual Conference

31 st	14-03-2024	Hybrid (Virtual + Physical)
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Chairman: Dr. S. K. Sharma, In Personal Capacity

Sl. No.	Organization Represented	Principal / (Alternate) Member	Meetings attended			
			29 th	30 th	31 st	Total
1.	Association of Certification Bodies of India	Shri K. Doraiswamy/ Shri Sanjay Kaushik	-	√	-	1/3
2.	Bhabha Atomic Research Centre, Mumbai	Dr. A Vinod Kumar/ Dr. S. K. Sahu	√	√	√	3/3
3.	Bureau of Energy Efficiency, Ministry of Power, New Delhi	Dr Ashok Kumar/ Shri Sunil Khandare	√	-	√	2/3
4.	Carbon Minus India, New Delhi	Dr. Srikanta K. Panigrahi/ Ms. Meenakshi Jain	-	-	√	1/3
5.	Central Leather Research Institute, Chennai	Dr. K Sri Bala Kameswari/ Dr S Swarnalatha	√	√	√	3/3
6.	Central Pollution Control Board	Shri G Thirumurthy	√	√	√	3/3
7.	Confederation of Indian Industry, New Delhi	Shri Shikhar Jain/ Ms Anjali	-	-	√	1/3
8.	Consumer Education and Research Centre, Ahmedabad	Ms Anindita Mehta/ Ms Divya Namboothiri	√	√	-	2/3
9.	Environmental Protection Training and Research Institute, Hyderabad	Dr. J. Sessa Srinivas	√	√	√	3/3
10.	Federation of Indian Chambers of Commerce & Industry (FICCI), New Delhi	Shri M A Patil/ Shri Mritunjay Kumar/ Ms Tanya Khanna	-	√	√	2/3
11.	India Glycols Limited	Dr. R. K. Sharma/ Shri Sarang Khati	√	√	√	3/3
12.	Indian Chemical Council, Mumbai	Dr. Mritunjay Chaubey/ Dr. Krish Nendu Sil	-	-	√	1/3

Sl. No.	Organization Represented	Principal / (Alternate) Member	Meetings attended			
			29 th	30 th	31 st	Total
13.	Indian Oil Corporation Ltd., Faridabad	Dr. Umish Srivastava/ Dr. Manoj Kumar Upreti	√	-	-	1/3
14.	JK Tyre & Industries Ltd.	Dr Rajiv Bhatnagar Shri Ashok	C	√	√	2/2
15.	JSW Steel Ltd.	Shri Prabodha Acharya/ Shri Swaroop Banerjee	-	-	-	0/3
16.	National Council for Cement and Building Materials, New Delhi	Shri Prateek Sharma / Shri Anand Bohra	-	√	√	2/3
17.	Quality Council of India, New Delhi	Shri Ajay Kumar Sharma Shri Mohana Rao S V	-	-	√	1/3
18.	RITES Ltd, Gurgaon	Shri M. P. Mandal / Shri Abhay Kumar Sharma	-	√	-	1/3
19.	TATA Consultancy Services Ltd.	Shri Debasish Nath	√	√	√	3/3
20.	The Fertiliser Association of India, New Delhi	Shri Manish Goswami / Shri J Harihara & Dr Desh Deepak Chaturvedi	√	√	√	3/3
21.	In Individual Capacity	Prof. Sadhan Kumar Ghosh	-	√	√	2/3
22.	In Individual Capacity	Shri V S Mathur	-	√	√	2/3

√ Present, C:Co-opted, R:Regret
