



BUREAU OF INDIAN AGENDA

Thirteenth meeting of Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, SSD 14

Date	Day	Time	Venue
12 January 2024	Friday	1430	Web meeting

Chairman: Shri Suneel Kumar Arora, Joint Director General (Works), Military Engineer Services, Delhi.

Member Secretary: Ms Priyanka Singh, Sc B/AD, BIS

Item 0 WELCOME AND OPENING REMARKS

0.1 By Member Secretary

0.2 By Chairman

Item 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

The minutes of the twelfth meeting of the Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, SSD 14 held online on 19 October 2023 were circulated vide BISDG letter No. SSD 14/A-2.12 dated 07 November 2023. No comments were received on the minutes.

The Committee may formally *confirm the minutes*.

Item 2 SCOPE AND COMPOSITION OF SSD 14 SECTIONAL COMMITTEE

2.1 Scope

The present scope of the Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, SSD 14 is given below:

'Standardization of the management concepts for service activities and processes relating to drinking water supply, wastewater and stormwater systems.

This structure includes activities necessary to fulfil the objectives of water supply, wastewater and storm water systems. Water supply for purposes other than drinking water can be included in this management concept structure.

Excluded:

- Normative target or threshold values for service quality criteria;
- Normative limits of acceptability for drinking water quality or for wastewater and storm water discharges to the environment;
- Product specifications for chemical and biological additives for water and wastewater

treatment;

- Standardization in sludge recovery, recycling, treatment and disposal;
- Standardization in water reuse;
- Methods for the measurement of water quality.’

Liaison with: ISO/TC 224 – Service activities relating to drinking water supply, wastewater and stormwater systems.

The Committee may *review the scope*.

2.2 Composition of the Sectional Committee SSD 14

2.2.1 The composition of the sectional committee and participation status in the last three meetings is placed in **Annex A**.

The Committee may *review the composition*.

2.2.2 As per direction received from DG BIS via BIS circular P&C/09182023-PNC-BIS dated 9 Nov 2023, absence from two consecutive and less than 50 percent of the meetings of the TC held in a year shall invite termination of the membership. Accordingly, the membership was terminated and a termination letter was sent to following organization as given below:

Sl NO.	Name of Organization	Name of Member
1.	National Institute of Disaster Management, Delhi	Dr Chandan Ghosh
		Dr Amir Ali Khan
		Shri Ajinder Walia
2.	Delhi Jal Board, New Delhi	Shri Sanjay Sharma
		Shri Ashutosh Kaushik

BIS has received a reply of the termination letter from the Delhi Jal Board with the following change in the nomination:

Sl NO.	Name of Organization	Role	Name of Member	Revised Nomination
1.	Delhi Jal Board	Principal member	Shri Sanjay Sharma, Director QC, DJB	No Change
		Alternate member	Shri Ashutosh Kaushik, Contractual	Shri Sunil Kumar Singh, CE (WWII), DJB

The Committee may *review and decide*.

2.2.3 In the twelfth committee meeting, the committee decided to re-write review of representation letter to the top management non-active member organizations in copy to the Chairperson. Accordingly, BIS sent the review of representation letter to the following organization dated 20 Nov 2023:

Sl No.	Name of Organization
1	Brihan Mumbai Municipal Corporation, Mumbai
2.	Chennai Metropolitan Water Supply and Sewerage Board, Chennai
3.	Central Public Works Department, New Delhi

BIS has received a reply to the review of the representation letter from the Chennai Metropolitan

Water Supply and Sewerage Board, Chennai with the following change in the nomination:

Sl NO.	Name of Organization	Role	Name of Member	Revised Nomination
1.	Chennai Metropolitan Water Supply and Sewerage Board, Chennai	Principal member	Ms N. Manimegalai	Ms. A. Pusphalata
		Alternate member I	Ms G Magarajothi	Ms R. Chitra
		Alternate member II		Ms N Shiva Shankari

The Committee may *review and decide*.

2.3 Composition of the Panel for drafting roadmap SSD 14/P1

The Composition of the Panel for drafting roadmap SSD 14/P1 under the SSD 14 committee is given below:

SI No.	Name of Member	Name of Organization
1	Shri R. S. Tyagi (Convener)	In personal capacity, New Delhi
2	Dr Rajesh Singh	National Institute of Hydrology, Roorkee
3	Ms Pallavi Gulati	Quality Council of India, New Delhi
4	Shri Rajat Jain	WAPCOS, Gurugram
5	Dr Ramakant	Central Public Health and Environmental Engineering Organization, New Delhi
6	Shri J C Singhal	Institute of Engineers India, New Delhi
7	Shri Girish Mishra	Saviram Engineering Consultants Pvt Ltd, NOIDA

The Committee may note.

2.4 Composition of the Panel for drafting standard on Piped Drinking Water Supply Service SSD 14/P2

The Composition of the Panel for drafting standard on Piped Drinking Water Supply Service SSD 14/P2 under the SSD 14 committee is given below.

SI No.	Name of Member	Name of Organization
1	Dr Ramakant (Convener)	Central Public Health and Environmental Engineering Organization, New Delhi
2.	Dr. Paras R. Pujari	National Environmental Engineering Research Institute, Nagpur
3	Dr. Preeti Chaturvedi Bhargava	CSIR-Indian Institute of Toxicology Research, Lucknow
4	Prof Arun Kumar	Indian Institute of Technology Delhi, New Delhi
5	Dr. K. S. Hari Prasad	Indian Institute of Technology Roorkee, Roorkee
6	Shri Padmanabh Maniyar	In personal capacity, Bengaluru
7	Shri R. S. Tyagi	In personal capacity, New Delhi

The Committee may please *note*.

2.5 Composition of the Panel for drafting standards on Distribution Networks and Vocabulary SSD 14/P3

The Composition of the Panel for drafting standard on distribution networks and vocabulary SSD 14/P3 under the SSD 14 committee is given below.

SI No.	Name of Member	Name of Organization
1	Dr Ramakant (Convener)	Central Public Health and Environmental Engineering Organization, New Delhi
2	Shri J C Singhal	Institute of Engineers India, New Delhi
3	R S Tyagi	In Personal Capacity, New Delhi
4	Shri Rajat Jain	WAPCoS, Gurugram
5	Dr Rajesh Singh	National Institute of Hydrology, Roorkee
6	Shri Padmanabh Maniyar	In personal capacity, Bengaluru
7	Dr Preeti Chaturvedi Bhargava	Indian Institute of Toxicology Research, Lucknow

The Committee may please *note*.

2.6 Composition of the Panel for drafting standards on Disaster/Crisis Management SSD 14/P4

2.6.1 The Composition of the Panel for drafting standard on disaster/crisis management SSD 14/P4 under the SSD 14 committee is given below:

SI No.	Name of Member	Name of Organization
1	Shri Rajat Jain (Convener)	WAPCoS, Gurugram
2	Dr Ramakant	Central Public Health and Environmental Engineering Organization, New Delhi
3	Dr Preeti Chaturvedi Bhargava	Indian Institute of Toxicology Research, Lucknow
4	Ms Monika Bahl	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, New Delhi
5	Shri Rahul Sharma	
6	Shri Deepak Khare	Indian Institute of Technology Roorkee
7	Abhishek Sharma	National Disaster Management Authority, New Delhi
8	Shri Chandan Ghosh	National Institute of Disaster Management
9	Ms Anuja Anand	Quality Council of India, New Delhi
10	Ms Sonia Grover	The Energy and Resources Institute, New Delhi
11	Ms Niyati Seth	
12	Shri Dubash Meherzade	
13	Shri Mahesh Pathak	Unity IE World Private Limited, Pune
14	Col. A K Chaubey	In Personal Capacity, Kolkata
15	Shri R. S. Tyagi	In Personal Capacity, New Delhi

The Committee may please *note*.

2.6.2 Non participating members in Panel SSD14/P4

SI No.	Name of Member	Name of Organization
1	Ms Monika Bahl	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, New Delhi
2	Shri Chandan Ghosh	National Institute of Disaster Management
3	Ms Anuja Anand	Quality Council of India, New Delhi
4	Ms Sonia Grover	The Energy and Resources Institute, New Delhi
5	Ms Niyati Seth	
6	Shri Mahesh Pathak	Unity IE World Private Limited, Pune

The Committee may please *review and decide*.

2.7 Composition of the Working Group for drafting standards on water audit SSD 14/WG01

The Composition of the Working Group for drafting standards on water audit SSD 14/WG01 under the SSD 14 committee is given below:

SI No.	Name of Member	Name of Organization
1	Dr Ramakant (Convener)	Central Public Health and Environmental Engineering Organization, New Delhi
2	Shri K.D. Bhardwaj	National Productivity Council, New Delhi
3	Shri Anshuman	The Energy and Resources Institute, New Delhi
4	Shri Karthick Belligundu	L&T-S&T, Vadodara
5	Shri Akash Shah	L&T-S&T, Vadodara
6	Shri Dubash Meherzade	Unity IE World Private Limited, Pune
7	Shri Padmanabh Maniyar	In personal capacity, Bengaluru
8	Ms Shilpa Nischal	Confederation of Indian Industry, New Delhi
9	Shri R. S. Tyagi	In personal capacity, New Delhi

The Committee may please *note*.

Item 3 DRAFT DOCUMENT FOR P DRAFT CIRCULATION

The Panel for drafting standards on disaster/crisis management SSD 14/P4 has conducted four meetings to date for drafting the draft document on '**Alternate Drinking Water Services Provision During Crisis - Guidelines**'. The working draft document drafted by the panel is attached in **Annex B**.

The Committee may please *decide further course of action*.

Item 4 DRAFTS UNDER CONSIDERATION

The Panel for drafting standard on distribution network and vocabulary, SSD14/P3 was assigned to review the ISO document **Water Loss Investigation in water utilities** by the committee in its twelfth meeting held on 19 Oct 2023. Accordingly, the panel has conducted a meeting on 16 to review the ISO document and suggested modifications. The ISO document along with the suggestion of the panel is attached in **Annex C**.

The Committee may please *decide further course of action*.

Item 5 R& D PROJECT UNDER SSD 14

As per the direction of DG BIS, no Standard/Revision of Standards shall be formulated without research. The following subjects have been identified by BIS to conduct R&D under SSD 14.

5.1 Decentralized Wastewater Management (DWM) Systems

The outcome of the R&D project will help SSD 14 to develop an IS standard on DWM systems. The terms of reference for the R&D project on onsite domestic wastewater services is attached in **Annex D**.

5.3 Mobile Toilets During Public Health Emergencies

ISO/TC 224 is developing international standards on mobile toilets during public health emergencies and SSD 14 is actively participating in drafting the documents by providing comments. Currently, participation of SSD 14 is limited and for its further enhancement, it is proposed to conduct an R&D project on this subject to get more information. The outcome of the R&D project will help SSD 14 to increase participation in international standardization. The terms of reference for R&D project on onsite domestic wastewater services is attached in **Annex E**.

Item 6 INTERNATIONAL ACTIVITY

6.1 Ballots and voting under ISO/TC 224

The following ISO ballots from ISO/TC 224, were received after the twelfth meeting of SSD14:

Sl No.	Doc Reference	Title	Ballot Received	Last date of ballot	Reply of NMC
1.	ISO/CD 24521	Activities relating to drinking water and wastewater services — Guidelines for the management of basic on-site domestic wastewater services	10-Oct-2023	05-Dec-2023	No Comments
2.	ISO/FDIS 24510	Activities relating to drinking water and wastewater services — Guidelines for the assessment and for the improvement of the service to users	11-Oct-2023	06-Dec-2023	Abstain
3.	ISO/FDIS 24596	Drinking water, wastewater and stormwater systems and services — Guidelines for the planning and implementation of infrastructure hardening for water and wastewater systems	24-Nov-2023	19-Jan 2024	Upcoming

4.	ISO/FDIS 24512 (Ed 2)	Activities relating to drinking water and wastewater services — Guidelines for the management of drinking water utilities and for the assessment of drinking water services	30- Nov-2023	25-Jan-2024	Upcoming
5.	ISO/FDIS 24511 (Ed 2)	Activities relating to drinking water and wastewater services — Guidelines for the management of wastewater utilities and for the assessment of wastewater services	06-Dec-2023	31-Jan-2024	Upcoming
6.	ISO/TS 24541	Service activities relating to drinking water supply, wastewater and stormwater systems — Guidelines for the implementation of continuous monitoring systems for drinking water quality and operational parameters in drinking water distribution networks	15-Dec-2023	03-Mar-2024	Upcoming

The Committee may *note*.

6.2 Upcoming meetings of working groups of ISO/TC 224

6.2.1 The **ISO/TC 224/WG 7 on Crisis management of water utilities** has been formulating an ISO document on ‘**Guidelines for the management of mobile toilets under Public Health Emergencies**’ 35th meeting of the WG has been scheduled on 23 Jan 2024 (virtually). Currently, the following members of NMC are representing BIS and participating in the standard formulation activity of the working group:

- a) Dr Ramakant, Deputy Advisor, Central Public Health and Environmental Engineering Organization;
- b) Shri Padmanabh, In personal capacity; and
- c) Ms Priyanka Singh, Sc-B/AD, Member Secretary of SSD 14.

The concerned members may please *note*.

6.2.2 The **ISO/TC 224/WG 8 on Onsite domestic wastewater management** has been formulating an ISO document on ‘**Guidelines for the management of basic on-site domestic wastewater services**’. The WG is conducting its 16th meeting on 19-20 Mar 2024 in Vienna, Austria. Currently, the following members of NMC are representing BIS and participating in the standard formulation activity of the working group:

- a) Shri S. K. Arora, Deputy Director General, Military Engineer Service;
- b) Dr Ramakant, Deputy Advisor, Central Public Health and Environmental Engineering Organization;
- c) Shri Padmanabh, In personal capacity;
- d) Dr Anshuman, Director, The Energy and Research Institute; and

c) Ms Priyanka Singh, Sc-B/AD, Member Secretary of SSD 14.

Committee may *deliberate* and *finalize* the Indian delegation to attend the working group meeting.

Item 7 DATE & PLACE OF THE NEXT MEETING

Considering the issuance of new guidelines for standardization activities, the system of quarterly meetings has to be followed. The Chairperson has approved the following meeting dates for the financial year 2023-2024:

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
28 April 2023	25 July 2023	19 October 2023	Today

The committee may *note* the next meeting date and decide the mode of the meeting.

Item 8 ANY OTHER BUSINESS

Annex – 1

The Composition of the Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, SSD 14

SI No.	Organization / In Personal Capacity)	Name (s) of Representative	Category	Attendance			
				Meeting No. 10th	Meeting No. 11th	Meeting No. 12th	Total
1.	Military Engineer Services, New Delhi	Shri Suneel Kumar Arora	Chairperson	Y	Y	Y	3/3
2.	Brihan Mumbai Municipal Corporation, Mumbai	Shri Anil Ragunath Kotkar	Principal Member	-	-	-	0/3
		Shri U.S. Mudras	Alternate Member	-	-	-	0/3
3.	CSIR - Indian Institute of Toxicology Research, Lucknow	Dr Preeti Chaturvedi Bhargava	Principal Member	Y	Y	Y	3/3
		Dr Satyakam Patnaik	Alternate Member	N	N	N	
4.	CSIR - National Environmental Engineering Research Institute, Nagpur	Dr Pranav Nagarnaik	Alternate Member	N	N	N	2/3
		Dr P.K. Labhasetwar	Principal Member	N	Y	Y	
5.	Centre for Science and Environment, Gurgaon	Dr Sumita Singhal	Principal Member	Y	Y	Y	3/3
6.	Central Public Health and Environmental Engineering Organization, New Delhi	Dr Ramakant	Principal Member	Y	Y	Y	3/3
		Ms Chaitra Devoor	Alternate Member	N	N	N	
7.	Central Water Commission, New Delhi	Shri Deepak Kumar	Principal Member	Y	N	Y	2/3
		Shri Pankaj Kumar	Alternate Member	Y	N	Y	
8.	Central Public Works Department, New Delhi	Shri Dinesh K Ujjainia	Principal Member	N	N	N	0/3
		Shri Chandra Shekhar Azad	Alternate Member	N	N	N	

		Mrs Anshu R. Shukla	Young Professional	N	N	N	
9.	Chennai Metropolitan Water Supply and Sewerage Board, Chennai	Ms. A. Pusphalata	Principal Member	Revised Nomination			
		Ms R. Chitra	Alternate Member I				
		Ms N Shiva Shankari	Alternate Member II				
10.	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, New Delhi	Ms. Monika Bahl	Principal Member	N	N	N	3/3
		Shri Rahul Sharma	Alternate Member	Y	Y	Y	
11.	Engineers India Limited, Gurugram	Shri Parveen Kumar Goel	Principal Member	N	N	Y	3/3
		Ms. Antara Das	Alternate Member	Y	Y	Y	
12.	Indian Institute of Technology Delhi, New Delhi	Prof. Arun Kumar	Principal Member	Y	Y	Y	3/3
		Prof. V. Arya	Alternate Member	N	N	N	
		Ms. Radhika Sharma	Young Professional	N	N	N	
13.	Indian Institute of Technology Roorkee, Roorkee	Dr. K. S. Hari Prasad	Principal Member	Y	Y	N	3/3
		Prof. Zulfequar Ahmad	Principal Member	N	Y	Y	
14.	Institute of Engineers India, New Delhi	Shri J. C. Singhal	Principal Member	N	N	Y	1/3
15.	Indian Institute of Technology, indore	Dr, Ashootosh Mandpe	Principal Member	New Co-option			
16.	L&T-Sargent & Lundy Limited, Vadodara	Shri Karthik Belligundu	Principal Member	Y	N	N	1/3
		Shri Akash Kumar Dineshbhai Shah	Alternate Member	Y	N	N	
17.	Military Engineer Services, Bengaluru	Shri Padmanabh Maniyar	Principal Member	Y	Y	Y	3/3
18.	Ministry of Jal Shakti, Department of Drinking Water and Sanitation, New Delhi	Dr Rajsekhar	Principal Member	N	Y	Y	2/3

19.	National Institute of Hydrology, Roorkee	Shri Mukesh Kumar Sharma	Principal Member	Y	Y	N	2/3
		Shri Rajesh Singh	Alternate Member	Y	Y	N	
20.	Public Health Engineering Department, West Bengal	Shri Hemanta Koley	Principal Member	N	N	N	3/3
		Mr. Soumitra Chakraborty	Alternate Member	Y	Y	Y	
21.	Saviram Engineering Consultants Private Limited, Civil Engineering Department, Noida	Shri Girish Chandra Mishra	Principal Member	N	Y	Y Representative	2/3
22.	The Energy and Resources Institute, New Delhi	Shri Anshuman	Principal Member	-	-	Y	3/3
		Ms. Niyati Seth	Alternate Member	Y	Y	N	
23.	Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi	Shri B. K. Mukopadhyay	Principal Member	Y	Y	Y	3/3
		Shri K. C. Chaudhary	Principal Member	N	N	N	
24.	Water and Power Consultancy Services Limited, Gurugram	Shri Rajat Jain	Principal Member	Y	Y	Y	3/3
25.	IN PERSONAL CAPACITY	Shri R.S Tyagi	Personal Capacity	N	Y	Y	2/3
26.	IN PERSONAL CAPACITY	Col. A K Chaubey	Personal Capacity	Y	Y	Y	3/3
27.	IN PERSONAL CAPACITY	Shri Rajeshwar Rao Bandari	Personal Capacity	Y	N	Y	2/3