

**BUREAU OF INDIAN STANDARDS****AGENDA**

| Name of the Committee                          | No. of Meeting | Date                         | Time   | Venue   |
|--|----------------|------------------------------|--------|---|
| Environment and Ecology Division Council, EEDC | First          | 08 October 2024<br>(Tuesday) | 1000 h | Green Room (Samvad)<br>Manak Bhawan,<br>Bureau of Indian Standards<br>9, Bahadur Shah Zafar Marg<br>New Delhi – 110 002 |

**CHAIRPERSON:** Dr Vinod Bihari Mathur, In Personal Capacity  
[Former IFS (Indian Forest Services) officer and Ex- Chairperson, National Biodiversity Authority, New Delhi]

**MEMBER SECRETARY:** Smt Varsha Gupta, Scientist E/ Director & Head (Environment and Ecology), BIS

**ITEM 0 GENERAL**

**0.1 Welcome by Shri Chandan Bahl, DDG (IR&TIS, IRD and SCM)**

**0.2 Opening Remarks by the Chairperson, EEDC**

**0.3 Constitution of Resolution Drafting Committee**

**ITEM 1 BACKGROUND INFORMATION ON CREATION OF ENVIRONMENT AND ECOLOGY DIVISION COUNCIL, EEDC**

**1.1** Standardization plays a vital role in the continuous pursuit of sustainable development. This is because standards have a significant influence on the development of both products and processes. The purpose of setting standards in the field of Environment and Ecology is to safeguard the environment, human health, and natural resources. These standards can define acceptable levels of energy consumption, waste management procedures, and other measures for environmental and ecological preservation. They can encompass a wide array of activities such as addressing air and water pollution, proper disposal of hazardous waste, and conservation of biodiversity.

The standardization activities in these areas were conducted through Sectional Committees under various Division Councils. In light of the national importance of addressing environmental protection and climate change issues, BIS established a dedicated Division Council to have concentrated efforts of standardization on Environment and Ecology through its Standards Advisory Committee (SAC). Also, a new department, namely, Environment and Ecology Department (EED) has been created to serve as secretariat to EEDC.

**1.2 Brief Description of Standards Formulation Activity**

BIS, the National Standards Body, develops Indian Standards through technical committees. It uses consultative mode involving various stakeholders with interest and /or expertise in the relevant subject to bring in the viewpoints and interests of all. A brief about standard formulation activity is given in

**Annex 1.**

*The Council may kindly NOTE.*

**1.3 Division Council and its Functions****1.3.1 Division Council**

Division Council is a distinct committee of BIS, set up in defined areas of industries and technologies for formulation of standards. The Standards Advisory Committee (SAC) approves the title and scope of a Division Council and also amends it, as required. Division Council is to be reconstituted once in every three years. The constitution, functions and tenure of Division Councils is prescribed under Rules 16 and 19 of BIS Rules, 2018.

A Division Council comprises members representing interests of various stakeholders, such as consumers, regulatory and other government bodies, industry, scientists, technologists, testing organizations.

Chairperson of a Division Council is a person of eminence/repute by virtue of his/her contribution in the field and/or holding key position in his/her organization and shall be from the related discipline. The Chairperson of Division Council is appointed by SAC and the term of appointment/reappointment of a Chairperson of a Divisional Council is 3 years.

Head of the technical department concerned of BIS is the Member Secretary of Division Council.

**1.3.2 Functions**

Major functions of a Division Council are as follows:

- a) To advise on subject areas to be taken up for formulation of Standards under the Division Council keeping in view the national needs and priorities;
- b) To set up Sectional Committees within their areas, define their scopes, appoint their Chairmen and members and co-ordinate their activities;
- c) To approve proposals for work and determine the priority to be assigned to the work;
- d) To advise on matters relating to research and development needed for the establishment of standards or their revisions;
- e) To study the work of international organizations and their committees in standards formulation as related to the areas of work of Division Council and recommend on the extent and manner the participation in standardization activities at the international level;
- f) To advise on implementation of established standards and promotion of Indian Standards;
- g) To receive and deal with activity reports and to make recommendations thereon to the Bureau concerning matters in which the decision of the Bureau is necessary;
- h) To carry out such tasks as may be specifically referred to it by the Bureau/Standards Advisory Committee.

**ITEM 2 SCOPE AND COMPOSITION OF EEDC**

**2.1** The Standards Advisory Committee (SAC) of Bureau of Indian Standards established the Environment and Ecology Division Council on 29 July 2024.

## 2.2 Scope of EEDC

The scope of Environment and Ecology Division Council, EEDC, as approved by Standards Advisory Committee is given as under:

Standardization in the fields of (a) control of pollution, (b) sanitation, (c) ecology, (d) climate change, (e) environmental measurement, management and services, including:

- i) Prevention and Control of Water, Air (including noise) and Soil Pollution;
- ii) Waste Management;
- iii) Circular Economy;
- iv) Biodiversity and Ecosystem (including Himalayan and Coastal Ecosystems);
- v) Environmental Services;
- vi) Environmental Impact Assessment;
- vii) Environmental Monitoring, Measurement and Management;
- viii) Environmentally Sustainable Practices;
- ix) Climate Change and Human Health;
- x) Water Protection, Conservation and Management of Natural Water Resources;
- xi) Sustainable Habitat;
- xii) Strategic knowledge for Climate Change; and
- xiii) Green India.

*The Council may kindly REVIEW, DELIBERATE and DECIDE.*

## 2.3 Composition of EEDC

The Composition of the EEDC as approved by the Standards Advisory Committee is given in [Annex 2](#) alongwith the details of the nominated representatives by the member organizations.

*The Council may kindly REVIEW, DELIBERATE and DECIDE.*

## ITEM 3 PROGRAMME OF WORK, SCOPE AND COMPOSITION OF SECTIONAL COMMITTEES ESTABLISHED UNDER EEDC

**3.1** BIS Sectional Committees are representative of a fair and comprehensive balance of interests of various stakeholders with the intention of ensuring that any one type of stakeholder interest does not have a predominant influence on decisions and any resultant bias. The membership of the technical committees includes organizations that have a legitimate interest in the work of the committee as determined by its scope of work. Individuals may also be eligible for membership in committees in their personal capacity based on their expertise, knowledge of and/or experience in the subject that would be of benefit to the work of the committee.

The composition of the committees are to be reviewed by the appointing authority, with a view to making such changes as may be considered necessary in order to make the committee more effective and fully representative of the interests concerned. Review shall consider the contribution of existing members, any request for representation received from others interested, need for additional representations, members who need to be dropped, etc. Members not participating in two consecutive meetings and also otherwise not contributing by commenting on documents, are liable to be dropped in order to provide opportunity to other similar organizations/institutes that may be interested to participate and contribute to the standardization efforts.

**3.2** The Standards Advisory Committee has approved transfer of following already existing Sectional Committees under Chemical, Service Sector and Civil Engineering Division Councils

working on related subject areas, as mentioned below, to Environment and Ecology Division Council. It has also been decided to redesignate and rename (in some cases) these Committees.

| Sl No. | Designation Number and Title of EED Sectional Committee   | Previous Designation Number and Title of Sectional Committee  | Liaising ISO TC(s)  |
|--------|---|---|---|
| 1      | Environmental Management Sectional Committee, EED 01<br><br>(includes environmental management, circular economy and carbon capture, utilization and storage) | Environmental Management Sectional Committee, CHD 34  | <ul style="list-style-type: none"> <li>• ISO/TC 207 - Environmental management</li> <li>• ISO/TC 323 - Circular economy</li> </ul>  |
| 2      | Environment Pollution Sectional Committee, EED 02   | Environment Protection Sectional Committee, CHD 32  | ISO/TC 282 – Water reuse + Sub-Committees (SC 2, 3, 4)  |
| 3      | Effluent Treatment Sectional Committee, EED 03  | Part from Public Health Engineering Sectional Committee, CED 24   | --  |
| 4      | Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, EED 04   | Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committee, SSD 14   | ISO/TC 224 - Drinking water, wastewater and stormwater systems and services   |
| 5      | Environmental Services Sectional Committee, EED 05  | Environmental Services Sectional Committee, SSD 07  | --  |
| 6      | Biodiversity Sectional Committee, EED 06  | Biodiversity Sectional Committee, SSD 20  | ISO/TC 331 – Biodiversity   |
| 7      | Sustainability in Building Construction Sectional Committee, EED 07   | Sustainability in Built Environment Sectional Committee, CED 58   | ISO/TC 59/SC 17 - Sustainability in buildings and civil engineering works   |
| 8      | Waste Management Sectional Committee, EED 08  | Solid Waste Management Sectional Committee, CHD 33<br><br>Hospital Bio Medical Waste Management and Infection Control Sectional Committees MHD 21 | <ul style="list-style-type: none"> <li>• ISO/TC 275 - Sludge recovery, recycling, treatment and disposal;</li> <li>• ISO/TC 297 - Waste collection and transportation management</li> </ul> |

### 3.3 Programme of Work of Sectional Committees

The Programme of Work of a Sectional Committee is a document which comprises all the published standards and draft documents at various stages of their development. The programme of work of the Sectional Committees transferred to the EEDC are given as [Annex 3](#).

### 3.4 Scope and Composition of Sectional Committees

The scope and composition of these Sectional Committees under EEDC along with the member's attendance data for the last three meetings, except the Effluent Treatment Sectional Committee, EED 03, are enclosed at [Annex 4](#).

**3.5** In accordance with BIS Rules, 2018, the composition of Sectional Committees are required to be reviewed and the committees reconstituted every three years. The Sectional Committees under EEDC were last reviewed and reconstituted by their respective previous Division Councils, as mentioned in the table below:

| SI No. | Designation Number and Title of EED Sectional Committee  | Previous Designation Number and Title of Sectional Committee                                       | Date of the Last Review of the Sectional Committees |
|--------|--|--|---|
| 1      | Environmental Management Sectional Committees, EED 01  | Environmental Management Sectional Committees, CHD 34  | 13 June 2022  |
| 2      | Environment Pollution Sectional Committees, EED 02   | Environment Protection Sectional Committees, CHD 32  | 13 June 2022  |
| 3      | Effluent Treatment Sectional Committees, EED 03  | Part from Public Health Engineering Sectional Committees, CED 24                                   | New Committee                                       |
| 4      | Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committees, EED 04 | Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committees, SSD 14 | 09 May 2024   |
| 5      | Environmental Services Sectional Committees, EED 05  | Environmental Services Sectional Committees, SSD 07  | 09 May 2024   |
| 6      | Biodiversity Sectional Committees, EED 06  | Biodiversity Sectional Committees, SSD 20  | 25 Nov 2021   |
| 7      | Sustainability in Building Construction Sectional Committees, EED 07                               | Sustainability in Built Environment Sectional Committees, CED 58                                   | 03 July 2024  |
| 8      | Waste Management Sectional Committees, EED 08  | Solid Waste Management Sectional Committees, CHD 33  | 13 June 2022  |
|        |  | Hospital Bio Medical Waste Management and Infection Control Sectional Committees, MHD 21           | -   |

**3.6** In view of the transfer of the Sectional Committees to EEDC, the Council may review its scope and composition. Also, the Council may investigate the creation of additional Sectional Committees and relocating the Indian Standards, wherever required, based on its scope, to address evolving subjects and priorities in the field, with the aim to foster a more integrated approach to develop standards in the field of environment and ecology. A comprehensive analysis of the scope and programme of work of the Sectional Committees under EEDC has been done by the secretariat which has resulted into the

following major observations:

- a) The subject domains of a few of the Committees are overlapping, resulting into the duplication of subject areas across two or more Committees.
- b) The scope of EED 01 encompasses a wide range of diverse areas related to Environmental Management, resulting in the Committee being burdened with numerous complex topics. The subjects under the scope of this Committee may be divided into two or more, creating new Sectional Committees to have a focused and dedicated discussion on these subjects for standardization.
- c) The scope of the new Committee, EED 03, needs to be defined.
- d) While getting approval from the SAC, approval of liaison transfer of following ISO Committees/Sub-Committees could not be reflected in the proposal, inadvertently, which may be considered by the council:

| Sl No. | ISO Committee/Sub-Committee  | Concerned EED Sectional Committee                     |
|--------|--|---|
| i)     | ISO/TC 207/SC 1 - Environmental management systems (P-member)                                    | Environmental Management Sectional Committees, EED 01 |
| ii)    | ISO/TC 207/SC 2 - Environmental auditing and related practices (P-member)                        |   |
| iii)   | ISO/TC 207/SC 3 - Environmental labelling (P-member)   |   |
| iv)    | ISO/TC 207/SC 4 - Environmental performance evaluation (P-member)                                |   |
| v)     | ISO/TC 207/SC 5 - Life cycle assessment (P-member)   |   |
| vi)    | ISO/TC 207/SC 7 - Greenhouse gas and climate change management and related activities (P-member) |   |
| vii)   | ISO/TC 207/SC 4 - Environmental performance evaluation (P-member)                                |   |
| viii)  | ISO/TC 265 - Carbon Capture, Storage and Transportation (P-member)                               |   |
| ix)    | ISO/TC 282/SC 1 – Treatment wastewater reuse for irrigation (P-member)                           | Environment Pollution Sectional Committees, EED 01    |

- e) The Hospital Bio Medical Waste Management and Infection Control Sectional Committee MHD 21 has published only one standard (given below); subject of which is not related to the scope of EEDC. Also, the scope of MHD 21 (given below) has the components not relevant to the scope of EEDC:

Indian Standard published by MHD 1

IS 18200 (Part 1) : 2024/ Sharps injury protection - Requirements and test methods - Part  
 ISO 23907-1:2019 1: Single Use Sharps

Scope of MHD 21

To formulate Indian Standards for: i) Equipment and instruments for infection control  
 ii) Equipment/containers required under Biomedical Waste Management and handling rules

2016, amended from time to time.

*The Council may kindly REVIEW, DELIBERATE and DECIDE*

### **3.7 Co-Option in Sectional Committees**

The list of organizations which have been recommended for the co-option by respective sectional Committees is given in [Annex 5](#).

*The Council may kindly CONSIDER.*

### **3.8 Withdrawal of representation from Sectional Committees**

The list of organizations which have been recommended by respective sectional Committees for withdrawal of membership is given in [Annex 6](#).

*The Council may kindly CONSIDER.*

## **ITEM 4 ORGANIZATION OF WORKSHOP BY EED AND ESTABLISHMENT OF PANELS UNDER ENVIRONMENT AND ECOLOGY DIVISION COUNCIL**

**4.1** Subsequent to the constitution of EEDC, a 'Workshop on Standardization for Environment and Ecology' was conducted by BIS on 12 Aug 2024 at Yashobhoomi, Dwarka, New Delhi. This workshop aimed to disseminate information regarding the establishment of a new division council in BIS dedicated to the formulation of Indian Standards in the field of Environment and Ecology, including details about its composition and the associated Sectional Committees.

The workshop also desired to gain inputs on subject areas to be taken up for standardization, institutional mechanisms for effective synergy with various stakeholders, strategy for promoting and integrating research with the standardization work and implementation of standards in the concerned area.

The technical session of the workshop was designed to seek expert recommendations based on the collaborative discussions among participants. Delegates were divided into eight specialized groups, each focusing on unique topics relevant to the objectives of the Environment and Ecology Division Council, EEDC. The initial discussion took place on the nature of threats, implications in the subject area, need for standards, prioritization of areas for standardization, available documents/ reports/ regulations/ literature etc. alongwith the synergy required with government missions/programs and suggestions on stakeholder identification. A report of the workshop including the recommendations provided by all the relevant groups is enclosed at [Annex 7](#) for reference of the Committee.

*The Council may kindly CONSIDER.*

**4.2** In order to take forward the discussion initiated in the workshop and arriving at a roadmap for development of Indian Standards under EEDC, nine (09) panels have been constituted on the subjects identified under the scope of EEDC, to work on defined Terms of Reference (ToR) for providing their recommendations in the given time frame.

These panels are expected to develop a comprehensive document/ report identifying on key areas of concern, integrating the latest research and technological advancements, and aligning with the policies and missions of the Ministry. By establishing clear objectives and timelines for the next three years, the panels are to develop the documents that should give a roadmap identifying the gap areas and outlining the subjects that the Bureau of Indian Standards (BIS) should prioritize to effectively

formulate standards aimed at addressing challenges in environmental management, supporting broader governmental initiatives and improve public health. The work of each panel is coordinated by an officer from EED to ensure its efficient functioning.

Details of the title and composition of these panels alongwith the terms of reference and timeframe is given in the [Annex 8](#).

*The Council may kindly CONSIDER and APPROVE.*

#### **ITEM 5 APPOINTMENT/ REAPPOINTMENT OF THE CHAIRPERSONS OF THE SECTIONAL COMMITTEES**

The Chairpersons of Sectional Committees under Division Council are appointed/reappointed by the Division Council **for a period of 3 years**. The list of existing Chairpersons of the Sectional Committees of EEDC along with their date of appointment and tenure is given under:

| <b>SI No.</b> | <b>Sectional Committee</b>   | <b>Chairperson</b>  | <b>Date of Appointment</b> |
|---------------|--|---|----------------------------|
| 1.            | Environmental Management Sectional Committees, EED 01  | Dr S. K. Sharma, In Personal Capacity (Prof Emeritus Panjab University, Panjab)   | Feb 2022                   |
| 2.            | Environment Pollution Sectional Committees, EED 02   | Dr Atul Narayan Vaidya Director, National Environmental Engineering Research Institute (NEERI), Nehru Marg, Nagpur 440020 | Feb 2022                   |
| 3.            | Effluent Treatment Sectional Committees, EED 03  | -   | NA                         |
| 4.            | Drinking Water Supply, Wastewater and Stormwater Systems and Services Sectional Committees, EED 04 | Shri Suneel Kumar Arora, In Personal Capacity (Former Joint Director General, Military Engineer Services, New Delhi)      | Feb 2023                   |
| 5.            | Environmental Services Sectional Committees, EED 05  | Dr Rakesh Kumar, In Personal Capacity (Former Director, National Environment Engineering Research Institute, Nagpur)      | Feb 2023                   |
| 6.            | Biodiversity Sectional Committees, EED 06  | Dr Vinod Bihari Mathur, In Personal Capacity (Former Chairman, National Biodiversity Authority, Chennai)                  | Nov 2021                   |
| 7.            | Sustainability in Building Construction Sectional Committees, EED 07                               | Dr Monto Mani, Professor, Indian Institute of Science, Bengaluru  | July 2024                  |
| 8.            | Waste Management Sectional Committees, EED 08  | Dr Anuradha Shukla,   | Feb 2022                   |



|  |  |  |  |
|--|--|--|--|
|  |  | In Personal Capacity (Former Chief Scientist, CSIR-Central Road Research Institute, New Delhi) |  |
|--|--|--|--|

*The Council may kindly DELIBERATE and DECIDE.*

## **ITEM 6 REVIEW OF TECHNICAL ACTIVITIES**

### **6.1 New Subjects taken up/proposed to be taken up for standardization in the Sectional Committees under EEDC**

The list of new subjects taken up/ proposed to be taken up for Standardization under the various Sectional Committees under EEDC is enclosed at [Annex 9](#).

*The Council may kindly CONSIDER.*

### **6.2 Important Standards formulated by the Sectional Committees under EEDC**

A brief about the important standards formulated by the Sectional committees under EEDC since the last meeting of their previous, respective, Division Councils is enclosed at [Annex 10](#).

*The Council may kindly NOTE.*

## **Item 7 INTERNATIONAL PARTICIPATION**

### **7.1 Participation in ISO Technical Committees**

BIS participates in the International Standardization activities of the International Organization for Standardization (ISO) thereby contributing to International Standards development activities as well. It is a constant endeavor of all Sectional Committees to identify priority areas for participation in ISO technical committees that are of strategic importance to India and to identify relevant experts who would actively contribute to international standardization. The decision to participate in the Technical Committee/Subcommittees of ISO/IEC based on the scope of work rest with the concerned Sectional Committee, with the approval of the Division Council.

BIS Participates in the technical work of ISO committees as a 'Participating (P)' member or as a 'Observer (O)' member by physical or online participation and through casting ballots on the ISO portal.

**7.1.1** Presently, India is a 'P' member in the following Technical Committees and Subcommittees of ISO relevant to the work of EEDC:

- |    |                 |   |
|----|-----------------|---|
| a) | ISO/TC 207      | Environmental management  |
| b) | ISO/TC 207/SC 1 | Environmental management systems  |
| c) | ISO/TC 207/SC 2 | Environmental auditing and related practices                            |
| d) | ISO/TC 207/SC 3 | Environmental labelling   |
| e) | ISO/TC 207/SC 4 | Environmental performance evaluation                                    |
| f) | ISO/TC 207/SC 5 | Life cycle assessment   |
| g) | ISO/TC 207/SC 7 | Greenhouse gas and climate change management and related activities ISO |
| h) | ISO/TC 265      | Carbon dioxide capture, transportation, and geological storage          |
| j) | ISO/TC 323      | Circular economy  |
| k) | ISO/TC 282      | Water reuse   |

- |    |                 |  |
|----|-----------------|--|
| m) | ISO/TC 282/SC 1 | Treated wastewater reuse for irrigation                        |
| n) | ISO/TC 282/SC 2 | Water reuse in urban areas                                     |
| p) | ISO/TC 282/SC 3 | Risk and performance evaluation of water reuse systems         |
| q) | ISO/TC 282/SC 4 | Industrial water reuse   |
| r) | ISO/TC 275      | Sludge recovery, recycling, treatment and disposal             |
| s) | ISO/TC 297      | Waste collection and transportation management                 |
| t) | ISO/TC 224      | Drinking water, wastewater and stormwater systems and services |
| u) | ISO/TC 331      | Biodiversity   |

**7.1.2** India is a 'O' member in the following Technical Subcommittees of ISO relevant to the work of EEDC:

- |    |                 |   |
|----|-----------------|---|
| i) | ISO/TC 59/SC 17 | Sustainability in buildings and civil engineering works |
|----|-----------------|---|

*The Council may kindly NOTE.*

## **7.2 Indian experts nominated in Working Groups under ISO Technical Committees and Sub-Committees**

The details of experts from India (BIS) working in the various Working Groups under various ISO Technical Committees and Sub-Committees are given in the [Annex 11](#).

*The Council may kindly NOTE.*

## **7.3 Participation by Indian Delegations in ISO Meetings**

The details of the Indian delegations comprising of members of the Sectional Committees who participated in the Technical Committee or Sub-Committee meetings of ISO since the last meeting of their previous, respective, Division Councils is enclosed at [Annex 12](#).

*The Council may kindly NOTE.*

## **ITEM 8 INITIATIVES TAKEN BY BIS IN STANDARDS DEVELOPMENT ACTIVITY**

### **8.1 Formation of Search Committee**

As per the guidelines issued under the structural reforms in BIS, every Divisional Council has to constitute a Search Committee with 3 or 4 of its members to recommend the technical experts to be included in Sectional Committees of this Council.

It is accordingly, proposed to establish a Search Committee under EEDC for the purpose.

*The Council may kindly CONSIDER and DECIDE.*

### **8.2 R & D project under BIS funds**

**8.2.1** While reviewing/revising existing Indian Standards or formulating new Indian Standards, it is required to obtain latest empirical data/technical inputs so that these standards so revised/formulated are most up-to-date reflecting the state-of-the-art and are at par with international standards and practices. This has become especially important now in view of globalization and consequent opening up of economies of the world. Such intensive, in-depth review of existing Indian

Standards for so many published Indian Standards and formulation of new Indian Standards in specialized fields, is highly tedious task necessitating intensive involvement of different specialized/R&D expert organizations who could provide latest technological inputs and advice on such specific subjects/issues. Further, on subjects/standards involving public controversy and health and safety of consumers, greater involvement of such expert organizations needs to be ensured, where they can serve as an effective alert mechanism.

Keeping the above in view, BIS has come up with the funds for such R&D project and proposed the 'Guidelines for Research & Development Projects for Formulation and Review of Standards' which are placed below as [Annex 13](#).

**8.2.2** A list of the R&D projects on various subjects under the Sectional Committees of EED is placed at [Annex 14](#).

*The Council may kindly NOTE and ADVISE.*

**ITEM 9 ANY OTHER BUSINESS**

**ITEM 10 DATE AND PLACE FOR THE NEXT MEETING OF EEDC**