

# AGENDA

## 28<sup>th</sup> Meeting of Mechanical Engineering Division Council, MEDC

1030h; Wednesday, 18 December 2024



MECHANICAL ENGINEERING DEPARTMENT

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI – 110002



**BUREAU OF INDIAN STANDARDS**  
***(MECHANICAL ENGINEERING DEPARTMENT)***

**AGENDA**

Name of the Council	Meeting No.	Day	Date	Time	Mode of Meeting
Mechanical Engineering Division Council, MEDC	28 <sup>th</sup>	Wednesday	18 December 2024	10:30 h	Hybrid *
<p><b>* Ways to join the Meeting:</b></p> <ul style="list-style-type: none"><li>- <b>Through physical presence:</b></li></ul> <p><b>Venue:</b> Dr. Lal C Verman Conference Hall, Bureau of Indian Standards Manak Bhawan, 9, Bahadur shah zafar Marg, New Delhi 110002</p> <ul style="list-style-type: none"><li>- <b>Join from the Webex meeting link:</b></li></ul> <p>VC Meeting URL: <a href="https://bismanak.webex.com/bismanak/j.php?MTID=m351a940993ae769ae7263df3adf940ed">https://bismanak.webex.com/bismanak/j.php?MTID=m351a940993ae769ae7263df3adf940ed</a></p> <p>Meeting ID : 2515 030 9158 Password : MEDC</p>					
<b>Chairperson:</b> Shri V. Sekar Chief General Manager BEML Limited			<b>Member Secretary:</b> Shri K Venkateswara Rao Scientist 'F' & Head, (Mech. Engg. Deptt), BIS		

**Item 0 GENERAL**

**0.1 Welcome Address by DDG (Standardization-II), BIS**

**0.2 Opening Remarks by Chairperson, MEDC**

**0.3 Presentation on Standardization Activity under MEDC**

**ITEM 1 CONFIRMATION OF PROCEEDINGS OF THE LAST MEETING**

Proceedings of the 27<sup>th</sup> meeting of Mechanical Engineering Division Council (MEDC) held on 26 April 2024 were circulated to the members vide BIS email dated 09 May 2024. No comments have been received.

The Council may **CONSIDER** and **CONFIRM** the proceedings.

## **ITEM 2 SCOPE AND COMPOSITION OF MECHANICAL ENGINEERING DIVISION COUNCIL, MEDC**

### **2.1 Scope of MEDC and its Committees**

The present scope of MEDC is as under:

“Standardization in the field of Mechanical Engineering covering Boilers and Pressure Vessels; Refrigeration and Air-conditioning; Renewable Energy Sources; Earth Moving Equipment and Material Handling; Chemical Engineering Plants and Equipment; Construction Plant and Machinery; Pumps and Handpumps; Compressors, Blowers and Exhausters; Gas Cylinders; Security Equipment; Mining Techniques and Equipment; Printing Machinery; Sewing Machines; Water Well Drilling; Utensils, Cutlery and Domestic Hardware; Oil and Gas Burning appliances; Wire Ropes and Wire Products; Gaskets and Packing; Methods and Equipment for underground gasification and coal bed methane; Mechanical Vibration and Shock Condition Monitoring; Mechanical equipment used in re-fuelling stations for petroleum and gaseous fuels; Energy Management and Energy Savings and Safety of Machinery.”

The Council may **REVIEW** the scope and **SUGGEST** changes, if any.

### **2.2 Composition of MEDC**

The present composition of Mechanical Engineering Division Council, MEDC as reconstituted by the Standards Advisory Committee (SAC) in its 25<sup>th</sup> meeting held on 29 November 2024, along with list of Chairpersons of various Sectional Committees, who are ex-officio members of the Council, is given at [Annex 1A](#) (Page No. 43-44) & [Annex 1B](#) (Page No. 44-46).

The Council may **REVIEW** the composition and **SUGGEST** changes, if any.

## **ITEM 3 SCOPE AND COMPOSITION OF SECTIONAL COMMITTEES**

**3.1** In accordance with Bureau of Indian Standards Rules, 2018, the composition of Sectional Committees is required to be reviewed by the Council and the committees are to be reconstituted at least once in every three years. All the 28 Sectional Committees under MEDC were reviewed in the last (27<sup>th</sup>) meeting of the Council held on 26<sup>th</sup> April 2024.

**3.2** The scope and composition of 28 Sectional Committees under MEDC is given at [Annex 2](#) (Page No. 46-87).

The Council may **REVIEW** the compositions.

**3.3** As per the BIS guidelines, Sectional Committees should represent all interest groups such as organized consumers/users, industry, technologists and regulatory bodies/NGOs, etc. However, consumer interests shall as far as possible predominate. Where non-industry interests are less than 2/3, it may be reviewed. Stakeholders such as manufacturers/ service providers as well as consumer activists should as far as possible represent industries association and organizations and not individual companies.

**3.4** Also, it may be desirable to induct and involve new people in the work of Sectional Committees with an aim to infuse fresh ideas and it is suggested that member organizations may

like to keep this aspect in view while nominating their representations in the technical committees. The Sectional Committees are requested to identify and involve talent available in the country related to their respective subjects to involve them in the proceedings of the Committees.

**3.5** BIS aims to work towards gender balance at all levels (including leadership positions) in all Committees in line with the UN Sustainable Development Goal 5 and UN Declaration on Gender Responsive Standards. Organizations are encouraged to nominate woman representatives as Principal/Alternate Members.

### **3.6 Changes in the Scope of Sectional Committees**

**3.6.1** In the previous meeting, Utensils, Cutlery, and Domestic Hardware Sectional Committee, MED 33 proposed to modify its scope as follows:

Formulation of standards in the field of Utensils, Cutlery, and Domestic **Door** Hardware Items.

The Council in its last meeting advised MED 33 to reassess its scope and submit a fresh proposal. Consequently MED 33 has proposed the new scope which is as follows:

‘Formulation of standards in the field of utensils, cutlery and ~~Domestic Hardware Items~~ locks’

The Council may **CONSIDER** and **DECIDE**.

**3.6.2** Turbo Machinery Sectional Committee, MED 22 has proposed to modify its scope as follows:

- a) Formulation of standards for compressors, blowers, exhausters, turbines, and **expanders** ~~and their related accessories~~. It also covers methods of measuring various ~~quantities~~ **parameters** connected with the testing and code of practices.
- b) Preparation of technical supply conditions and acceptance tests for ~~centrifugal~~, reciprocating, rotary, and dynamic compressors (**centrifugal and axial**), blowers, exhausters, turbines, and **expanders**.

The Council may **CONSIDER** and **DECIDE**.

**3.6.3** Cranes, Lifting Chains And Related Equipment Sectional Committee, MED 14 has proposed to modify its scope as follows:

“Standardization of cranes, **hoists**, winches, lifting chains, sheaves, suspension gears, hooks, swivel and shackles.”

The Council may **CONSIDER** and **DECIDE**.

**3.6.4** In the previous meeting, Sectional Committee, MED 06 ‘Continuous Bulk Conveying, Elevating, Hoisting, Aerial Ropeways and Related Equipment’ proposed to **bifurcate** the existing Committee in two different Committees due to its wide scope which is as follows:

- a) Aerial Ropeways, Amusement Rides, Water Parks and Related Equipment Sectional Committee, MED 06

**Scope:**

- i) Formulation of standards for Aerial ropeways, Amusement Rides, Water Parks and related equipment like Ziplines etc.
- ii) Co-ordination of work with ISO/TC 254 “Safety of Amusement Rides and Amusement Devices”.

b) Bulk Material Handling Equipment and systems Sectional Committee

**Scope:**

- i) Formulation of standards for conveyors, vertical hoists, bucket elevators, and related equipment like crushers screens, vibrating mills etc.
- ii) Co-ordination of work with ISO/TC 101 “Continuous mechanical handling equipment”.

The Council in its last meeting suggested that the Member Secretaries of the respective Sectional Committees handling the subject of 'Bulk Material Handling' explore the possibility of bringing standardization of Material Handling under a single committee.

The matter was taken up with TED, ETD and other member secretaries in MED dealing with material handling subjects. The same is being examined by the respective committees. Since, the recommendations from sectional committees are awaited, a decision on the same may be taken in the next meeting of the Council.

The Council may **CONSIDER** and **DECIDE**.

**3.6.5** In 43rd meeting of Refrigeration and Air Conditioning Sectional Committee, MED 03, the Committee considering the present work status of MED 03, submitted its proposal to modify its scope as follows:

‘Standardization in the fields of refrigeration and air-conditioning, including terminology; ~~definitions and symbols;~~ **mechanical and electrical safety;** designation **and handling of refrigerants;** ~~testing of refrigerating systems; and refrigerating units;~~ **methods of testing and rating equipment; measurement of sound levels; and sustainability.**

**The scope also includes:**

- **Refrigeration and similar appliances for household and commercial use;**
- **Factory-assembled air-conditioners (cooling), heat pumps, dehumidifiers, humidifiers, refrigerant reclaiming and recycling equipment as well as other devices such as ventilation equipment, line components, and refrigerating controls used in air-conditioning and refrigeration systems;**
- **Automotive air conditioning; and**
- **Selection, installation, commissioning and maintenance of Heating Ventilation and Air Conditioning (HVAC) System considering the environment, safety, and human health.’ ”**

The present scope of MED 03 is as follows:

- a) Formulation of standards for refrigeration and air- conditioning equipment and appliances including terminology, definitions and symbols, designation of refrigerants, testing of refrigerating systems; and refrigerating units.

The Council may **CONSIDER** and **DECIDE**.

### 3.7 Co-option/Withdrawal of Representation in Sectional Committees

3.7.1 A list of organizations **co-opted** by various Sectional Committees is given below:

Committee No.	Committee Name	Organization	Remarks
MED 01	Boilers And Pressure Vessels	<ul style="list-style-type: none"> <li>Malaviya National Institute of Technology, Jaipur</li> </ul>	
MED 03	Refrigeration and Air Conditioning Sectional Committee	<ul style="list-style-type: none"> <li>Malaviya National Institute of Technology, Jaipur</li> </ul>	
MED 04	Renewable Energy Sources	<ul style="list-style-type: none"> <li>Shri S. Murugapoopathi, Dindigul, In Personal Capacity,</li> </ul>	
MED 08	Mining Techniques and Equipment	<ul style="list-style-type: none"> <li>Hutti Gold Mines Company Limited, Bengaluru</li> </ul>	
MED 10	Wire Ropes And Wire Products Sectional Committee	<ul style="list-style-type: none"> <li>Otis Elevator Company (India) Limited, Bengaluru</li> <li>Schindler India Private Limited, Mumbai</li> <li>TK Elevator India Private Limited, Navi Mumbai</li> <li>National Institute of Technology,</li> <li>Kurukshetra</li> </ul>	
MED 16	Gas Cylinders	<ul style="list-style-type: none"> <li>Minda Westport Technologies Limited, Gurugram</li> </ul>	
MED 17	Chemical Engineering Plant and related equipment	<ul style="list-style-type: none"> <li>Advance Valves Global, Noida</li> <li>Bharat Petroleum Corporation Limited Corporate Research &amp; Development Centre, Greater Noida</li> <li>Fab-Tech Works And Constructions Private Limited, Mumbai</li> <li>Lathia Rubber Manufacture Company Private Limited, Mumbai</li> <li>Nuclear Power Corporation of India Limited, Mumbai</li> </ul>	
MED 18	Construction Plant and Machinery	<ul style="list-style-type: none"> <li>Roots Multiclean Limited, Coimbatore</li> </ul>	
MED 22	Turbo Machinery	<ul style="list-style-type: none"> <li>Triveni Turbines Limited, Bengaluru</li> </ul>	
MED 23	Domestic And Commercial Gas Burning Appliances Sectional Committee	<ul style="list-style-type: none"> <li>Stovkraft, Hosur</li> <li>Glen Appliances, Faridabad</li> </ul>	
MED 25	Printing Machinery	<ul style="list-style-type: none"> <li>Avinashilingam University, Coimbatore</li> <li>Prtaham Technologies, Mumbai</li> <li>Dr. Babasaheb Ambedkar Marathwada University Aurangabad</li> </ul>	

Committee No.	Committee Name	Organization	Remarks
		<ul style="list-style-type: none"> <li>• PVG's Maharashtra Institute of Printing Technology, Pune</li> </ul>	
MED 26	Oil Burning Appliances Sectional Committee	<ul style="list-style-type: none"> <li>• IIT Tirupati, Tripati</li> </ul>	
MED 27	Handpumps	<ul style="list-style-type: none"> <li>• Shri Vishwas Joshi, Pune, Ex. Expert UNICEF, In Personal Capacity</li> </ul>	
MED 28	Mechanical Vibration and Shock Condition Monitoring	<ul style="list-style-type: none"> <li>• Bosch Limited, Bengaluru</li> </ul>	
MED 32	Photographic Equipment	<ul style="list-style-type: none"> <li>• MKU Limited, Kanpur</li> </ul>	
MED 33	Utensils, Cutlery and Domestic Hardware	<ul style="list-style-type: none"> <li>• Autopress India Private Limited, Pune</li> <li>• Cello World Limited, Mumbai</li> <li>• Avon Appliances, Ankleshwar</li> </ul>	
MED 39	Energy Management and Energy Savings	<ul style="list-style-type: none"> <li>• IOCL R&amp;D Centre, Faridabad</li> </ul>	
MED 40	Safety of Machinery	<ul style="list-style-type: none"> <li>• Shell India Markets Private Limited, Mumbai</li> <li>• Shri Sanjay Bhure, Expert in Personal Capacity, Nagpur</li> <li>• Chittaranjan Locomotive Works, Chittaranjan</li> <li>• Central Manufacturing Technology Institute (CMTI), Bengaluru</li> <li>• Schmersal India Private Limited, Pune</li> <li>• Sick India Private Limited, Pune</li> <li>• Cummins India Limited, Pune</li> <li>• Gudel India Pvt Ltd, Pune</li> <li>• Pilz India Pvt Ltd, Pune</li> <li>• V-SAME Engineering and Training Solutions, Pune</li> <li>• Omron Automation, Pune</li> <li>• National Institute of Technology, Kurukshetra</li> <li>• URS Verification Pvt. Ltd, Noida</li> <li>• Shri Amol Sangekar, Mumbai, Expert in Personal Capacity,</li> <li>• Prazamana Safetic Limited Liability Partnership, Pune</li> <li>• Shri Mahesh Dave, Bengaluru, Expert in Personal Capacity</li> </ul>	

The Council may **CONSIDER** and **APPROVE** the co-options.

**3.7.2** List of organizations recommended for **withdrawal** by various Sectional Committees along with reasons thereof is given below:

<b>Committee No.</b>	<b>Committee Name</b>	<b>Organization</b>	<b>Reason</b>
MED 01	Boilers and Pressure Vessels	<ul style="list-style-type: none"> <li>• Hindustan Petroleum Corporation Limited, Mumbai</li> <li>• MECON Limited, Ranchi</li> <li>• Bharat Heavy Electricals Limited, Project Engineering Management, Noida</li> </ul>	Non-Participation
MED 16	Gas Cylinders	<ul style="list-style-type: none"> <li>• International Industrial Gases Limited, Howrah</li> <li>• Research and Development Establishment, Pune</li> </ul>	Non-Participation
MED 18	Construction Plant and Machinery	<ul style="list-style-type: none"> <li>• Indian Concrete Institute, Chennai</li> </ul>	Non-Participation
MED 22	Turbo Machinery	<ul style="list-style-type: none"> <li>• TLT Engineering Pvt. Ltd., Indrad</li> </ul>	Non-Participation
MED 23	Domestic and Commercial Gas Burning Appliances	<ul style="list-style-type: none"> <li>• Vanaz Engineers Limited, Pune</li> </ul>	Non-Participation
MED 25	Printing Machinery	<ul style="list-style-type: none"> <li>• Komori Corporation, New Delhi</li> </ul>	Non-Participation
MED 26	Oil Burning Appliances Sectional Committee	<ul style="list-style-type: none"> <li>• IIT Guwahati, Guwahati</li> </ul>	Non-Participation
MED 27	Handpumps	<ul style="list-style-type: none"> <li>• U.P. Jal Nigam. Lucknow</li> <li>• United Nations International Children's Emergency Fund, Copenhagen, Denmark</li> </ul>	Non-Participation
MED 28	Mechanical Vibration and Shock Condition Monitoring	<ul style="list-style-type: none"> <li>• Volvo Construction Equipments India Private Limited, Bengaluru</li> </ul>	Non-Participation
MED 29	Sewing Machines	<ul style="list-style-type: none"> <li>• Rita Machines India Private Limited, Ludhiana</li> <li>• Mechanical Engineering Research and Development Organisation, Ludhiana</li> </ul>	Non-Participation
MED 32	Photographic Equipment	<ul style="list-style-type: none"> <li>• Canon India Private Limited, Gurugram</li> <li>• L.N.J.N. National Institute of Criminology and Forensic Science, New Delhi</li> </ul>	Non-Participation



MED 37	Methods and Equipments for Underground Coal Gasification And Coal Bed Methane	<ul style="list-style-type: none"> <li>• Shri R.K. Sharma, In Personal Capacity</li> <li>• Atlas Copco Construction and Mining Sales, Pune</li> </ul>	Non-Participation
MED 38	Refueling Stations for Petroleum and Gaseous Fuel	<ul style="list-style-type: none"> <li>• MECON Limited, Ranchi</li> <li>• Indraprastha Gas Limited, New Delhi</li> </ul>	Non-Participation

The Council may **CONSIDER** and **APPROVE** the withdrawals.

### 3.8 Search Committee

**3.8.1** 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.

**3.8.2** In the last Council meeting, Gp. Capt. Chakrapani Mandela, Chairperson of MED 07 as the new Convener of the Search Committee. The present composition of the search committee is given below:

- |   |            |
|---|------------|
| a) Chairperson of MED 07, Gp. Capt. Chakrapani Mandela, | – Convener |
| b) Chairperson of MED 17, Shri Mritunjay Kumar Shukla   | – Member   |
| c) Chairperson of MED 39, Shri S R Lohokare             | – Member   |

The Council may **REVIEW** and **ADVISE** further.

### 3.9 Appointment of Chairperson of Sectional Committees

Chairperson of a Sectional Committee is appointed for a term of three years with the provision for reappointment for another term of three years. However, the Council may take a conscious decision to continue with a chairperson beyond the second term. A Chairperson whose term expires continues to hold office until his/her successor is appointed or he/she is reappointed.

The details of all Sectional Committees including which are due for appointment/reappointment of Chairperson are given below:

Sectional Committee	Chairperson	Date of Appointment	Date of Re-appointment	Remarks
MED 01	Technical Advisor (Boilers) and Member Secretary, Central Boiler Board ( <i>by designation</i> )  Presently, Shri Sandeep Sadanand Kumbhar	March 2013	December 2022	—
MED 03	Dr Ravi Kumar, Professor, IIT Roorkee	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Dr. Ravi Kumar for a further period of 3 years (i.e. till December 2027).
MED 04	Dr. A.K Tripathi, Scientist G, MNRE	February 2022	—	—
MED 06	Shri R. K. Sharma, Group General Manager at RITES Limited, Gurugram	w.e.f. January 2024	—	—
MED 07	Shri Chakrapani Mandela, General Manager, Head of R & D (M & C), KGF at BEML Limited, Bengaluru	w.e.f. January 2024	—	—
MED 08	Shri Saifullah Ansari, Director (MSE), DGMS	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Saifullah Ansari for a further period of 3 years (i.e. till December 2027).
MED 10	Shri D B Naik, DDG (Mechanical), DGMS	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri D B Naik for a further period of 3 years (i.e. till December 2027).
MED 14	Shri T. Hemant Kumar, Dy. General Manager, BEML	December 2022	—	—
MED 16	Shri P. Kumar, Chief Controller of Explosives, PESO	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri P. Kumar for a further period of 3 years (i.e. till December 2027).
MED 17	Dr Mritunjay Kumar Shukla,	December 2020	w.e.f. June 2023	—

Sectional Committee	Chairperson	Date of Appointment	Date of Re-appointment	Remarks
	Head, Engineering Services Division, CSIR - Indian Institute of Petroleum, Dehradun			
MED 18	Controller, CQAE (EE), New Delhi ( <i>By designation</i> )  Presently, Brig Rajneesh Bhatnagar	March 2013	29 November 2022	—
MED 20	Shri A.K. Nijhawan, In Personal Capacity	December 2017	December 2022	—
MED 21	Shri Ajay Aggarwal, Chief Engineer, GSI	December 2017	December 2021	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Ajay Aggarwal for a further period of 3 years (i.e. till December 2027).
MED 22	Shri K. Ravi, Rtd. Chief General Manager (E&C Projects), BPCL, In Personal Capacity	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri K. Ravi for a further period of 3 years (i.e. till December 2027), in Personal Capacity.
MED 23	Shri T D Sabu, CEO, LERC	w.e.f. December 2023	—	—
MED 24	Shri Pushkar Ekka, General Manager (Technical), Premises Department, Reserve Bank of India	November 2022	—	—
MED 25	Dr. Dattatraya Kute, Manager, University Press, Savitribai Phule Pune University	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Dr. Dattatraya Kute for a further period of 3 years (i.e. till December 2027).
MED 26	Dr GD Thakre, CSIR-IIP, Dehradun	December 2020	w.e.f. January 2024	—
MED 27	Shri G Shanmugnathan,	December 2020	December 2022	—

Sectional Committee	Chairperson	Date of Appointment	Date of Re-appointment	Remarks
	In Personal Capacity			
MED 28	Shri Manish Agrawal, DGM, MDF, BHEL(R&D)	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Manish Agrawal for a further period of 3 years (i.e. till December 2027).
MED 29	General Manager, R&D Centre for Bicycle & Sewing Machine, Ludhiana ( <i>by designation</i> )  Presently, Shri Vinay Kumar Srivastav	December 2017	29 November 2022	—
MED 30	Shri Udayan Chakravarty, General Manager, EIL	December 2020	December 2022	—
MED 32	Dr. Ranjana Mehrotra, In Personal Capacity	December 2017	December 2021	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Dr. Ranjana Mehrotra for a further period of 3 years (i.e. till December 2027) in Personal Capacity.
MED 33	Shri G Shanmugathan, In Personal Capacity	December 2016	December 2022	—
MED 37	Shri Uday Paswan, Group General Manager, Oil and Natural Gas Corporation	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Uday Paswan for a further period of 3 years (i.e. till December 2027).
MED 38	Shri P. Kumar, Chief Controller of Explosives, PESO	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri P. Kumar for a further period of 3 years (i.e. till December 2027).
MED 39	Shri Suhas Lohokare, In Personal Capacity	December 2020	December 2021	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Suhas Lohokare for a further period of 3 years (i.e. till December 2027).
MED 40	Shri Vikas Dogra, Deputy Secretary, DHI	December 2021	—	The Council may <b>CONSIDER</b> and <b>APPROVE</b> re-appointment of Shri Vikas Dogra for a further period of 3 years (i.e. till December 2027).

#### ITEM 4 REVIEW OF TECHNICAL COMMITTEES

## 4.1 Standards Formulation

At present there are 28 Sectional Committees functioning under MEDC. The total numbers of standards formulated by these Sectional Committees as on **10 November 2024** are 1369. The aspect wise breakup of the standards formulated by MEDC as on date is as follows:

Aspect	No. of Standards
Product Standards	655
Methods of Test	156
Codes of Practice	236
Terminology	81
Dimensions	55
System Standard	39
Safety Standard	65
Others	82
<b>Total</b>	<b>1369</b>

The Programme of Work of various Sectional Committees, under MEDC is available on BIS website [www.bis.org.in](http://www.bis.org.in).

The Council may **NOTE**.

## 4.2 Progress of Work

A brief report of consolidated progress of work of the various Sectional Committees under MEDC for the period **18 April 2024 to 10 November 2024** is given below:

- 1) No. of standards sent for publication – 80
- 2) No. of draft standards issued into wide circulation – 51
- 3) No. of Sectional Committee meetings held – 43
- 4) No. of Standards reviewed – 78

The Council may **NOTE**.

### 4.2.1 Important Standards Finalized

Some of the important Standards published by the respective committees during the period are given below:

SI No.	Committee name and number	Revision/ New	IS NO	Title
1	Refrigeration and Air Conditioning Sectional Committee, MED 03	Revision	IS 3315 : 2024	Direct Evaporative Air Cooler - Specification (Fourth Revision)
2	Refrigeration and Air	Revision	IS 11951 : 2024	Pumpset For Direct Evaporative Air Cooler - Specification (Second Revision)

SI No.	Committee name and number	Revision/ New	IS NO	Title
	Conditioning Sectional Committee, MED 03			
3	Refrigeration and Air Conditioning Sectional Committee, MED 03	Revision	IS 1475 : 2024	Drinking Water Coolers - Specification (Fourth Revision)
4	Refrigeration and Air Conditioning Sectional Committee, MED 03	New	IS 18848 : 2024	Non-Ducted Portable Air-Cooled Air Conditioners and Air-to-Air Heat Pumps having a Single Exhaust Duct - Testing and Rating for Performance
5	Refrigeration and Air Conditioning Sectional Committee, MED 03	Revision	IS 17550 (Part 2) : 2024	Household Refrigerating Appliances - Characteristics and Test Methods Part 2 Performance Requirements (First Revision)
6	Refrigeration and Air Conditioning Sectional Committee, MED 03	New	IS 18846 : 2024/ IEC TR 63061 : 2017	Adjusted volume calculation for refrigerating appliances
7	Refrigeration and Air Conditioning Sectional Committee, MED 03	New	IS 18847 : 2024/ ISO 22712: 2023	Refrigerating systems and heat pumps Competence of personnel
8	Renewable Energy Sources Sectional Committee, MED 04	Revision	IS 16543 : 2024	All-glass evacuated solar collector tubes - Specification ( <i>first revision</i> )
9	Continuous Bulk Conveying, Elevating, Hoisting Aerial Ropeways And Related Equipment Sectional Committee MED 06	Revision	IS 5626 : 2024	Chain Conveyors Connector Units Shackle Type Specification
10	Continuous Bulk Conveying,	Revision	IS 5895 : 2024	Steel Roller Conveyors Specification (Second Revision)

SI No.	Committee name and number	Revision/ New	IS NO	Title
	Elevating, Hoisting Aerial Ropeways And Related Equipment Sectional Committee MED 06			
11	Continuous Bulk Conveying, Elevating, Hoisting Aerial Ropeways And Related Equipment Sectional Committee MED 06	Revision	IS 5563 : 2024	Screw Conveyors For Industrial Use - Specification (Second Revision)
12	Mining Techniques And Equipment Sectional Committee, MED 08	Revision	IS 9494 : 2023	Man – Riding Cars used in Mines — Specification ( First Revision )
13	Mining Techniques And Equipment Sectional Committee, MED 08	Revision	IS 9192 : 2024	Flameproof hand-held rotary electric drilling machine for use in mines specification (First Revision)
14	Mining Techniques And Equipment Sectional Committee, MED 08	Revision	IS 13282 : 2024	Mine haulage tracks track sleepers general requirements (First Revision)
15	Wire Ropes And Wire Products Sectional Committee, MED 10	New	IS 18532 : 2024	Round Steel Wire Rope Used As Balance Ropes In Mines Specification
16	Cranes, Lifting Chains And Related Equipment Sectional Committee MED 14	Revision	IS 13558 (Part 5) : 2024 ISO 7752-5 : 2021	Cranes - Control Layout And Characteristics Part 5 Bridge And Gantry Crane (First Revision)

SI No.	Committee name and number	Revision/ New	IS NO	Title
17	Cranes, Lifting Chains And Related Equipment Sectional Committee MED 14	Revision	IS 3109 (Part 1) : 2024	Short Link Chain, Grade M (4) - Specification Part 1 Non-Calibrated Load Chain For Lifting Purposes (Third Revision)
18	Gas Cylinders Sectional Committee, MED 16	New	IS 18608 : 2024	Cryogenic Vessels — Valves For Cryogenic Vessels
19	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 11515 : 2022	Gas Cylinders Refillable Composite Reinforced Tubes Of Water Capacity Between 450 L And 3 000 L Design Construction And Testing
20	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 9809 : Part 2 : 2019	Gas Cylinders Design Construction And Testing Of Refillable Seamless Steel Gas Cylinders And Tubes Part 2 Quenched And Tempered Steel Cylinders And Tubes With Tensile Strength Greater Than Or Equal To 1 100 Mpa
21	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 11120 : 2015	Gas Cylinders Refillable Seamless Steel Tubes Of Water Capacity Between 150 L And 3 000 L Design Construction And Testing
22	Gas Cylinders Sectional Committee, MED 16	New	IS 18719 : Part 1 : 2024	Cryogenic Vessels — Transportable Vacuum Insulated Vessels Of Not More Than 1 000 Litres Volume Part 1 Design, Fabrication, Inspection And Tests
23	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 11119 : Part 1 : 2020	Gas Cylinders - Design Construction And Testing Of Refillable Composite Gas Cylinders And Tubes Part 1 Hoop Wrapped Fibre Reinforced Composite Gas Cylinders And Tubes Up To 450 Liters
24	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 11119 : Part 2 : 2020	Gas Cylinders — Design, Construction and Testing of Refillable Composite Gas Cylinders and Tubes Part 2 Fully Wrapped Fibre Reinforced Composite Gas Cylinders and Tubes up to 450 Litres with Load-Sharing Metal Liners
25	Gas Cylinders Sectional Committee, MED 16	New	IS/ISO 11119 : Part 3 : 2020	Gas Cylinders — Design, Construction and Testing of Refillable Composite Gas Cylinders and Tubes Part 3 Fully Wrapped Fibre Reinforced Composite Gas Cylinders and Tubes up to 450 Litres with Non-load-sharing Metallic or Non-metallic Liners or without Liners
26	Chemical Engineering	Revision	IS 10459 : 2024	General Purpose Plug Valves — Specification (First Revision)



SI No.	Committee name and number	Revision/ New	IS NO	Title
	Plant and related equipment Sectional Committee, MED 17			
27	Construction Plant and Machinery Sectional Committee, MED 18	Revision	IS 5889 : 2024	Vibratory Plate Compactor Specification (Second Revision)
28	Pumps Sectional Committee MED 20	Revision	IS 6595 (Part 2) : 2024	Horizontal Centrifugal Pump for Clear, Cold Water Part 2 General Purpose (Other than Agricultural and Rural Water Supply) - Specification (Third Revision)
29	Diamond Core And Waterwell Drilling Sectional Committee MED 21	Revision	IS 12682 : 2024	Water well drilling - percussion drilling rigs - general requirements (first revision)
30	Diamond Core And Waterwell Drilling Sectional Committee MED 21	Revision	IS 15028 : 2024	Hoisting Swivel for Use with Diamond Core Drilling - Specification (First revision)
31	Diamond Core And Waterwell Drilling Sectional Committee MED 21	Revision	IS 15029 : 2024	Recovery taps for use with diamond core drilling - Specification (First Revision)
32	Diamond Core And Waterwell Drilling Sectional Committee MED 21	Revision	IS 7156 : 2024	Reverse Circulation Drilling Rigs - General Requirements (First Revision)
33	Turbo Machinery Sectional Committee, MED 22	Revision	IS 11461 : 2024	Compressor Safety — Code of Practice ( First Revision )
34	Turbo Machinery Sectional Committee, MED 22	New	IS/ISO 18740 : 2016	Turbocompressors — Performance Test Code — Simplified Acceptance Test

SI No.	Committee name and number	Revision/ New	IS NO	Title
35	Turbo Machinery Sectional Committee, MED 22	New	IS/ISO 11011	Compressed Air — Energy Efficiency — Assessment
36	Domestic And Commercial Gas Burning Appliances Sectional Committee, MED 23	New	IS 18616 : 2024	Piezoelectric Spark Lighter For Gas Burning Appliances Specification
37	Sewing Machines Sectional Committee MED 29	Revision	IS 15449(Part 1):2024	Household Zig-Zag Sewing Machine/Head Part 1 General Requirements
38	Sewing Machines Sectional Committee MED 29	Revision	IS 15449(Part 2):2024	Household Zig-Zag Sewing Machine/Head Part 2 Accuracy Requirements
39	Sewing Machines Sectional Committee MED 29	Revision	IS 15449(Part 3):2024	Household Zig-Zag Sewing Machine/Head Part 3 Sewing Requirements
40	Sewing Machines Sectional Committee MED 29	Revision	IS 15449(Part 4):2024	Household Zig-Zag Sewing Machine/Head Part 4 Durability Requirements
41	Sewing Machines Sectional Committee MED 29	Revision	IS 9152 : 2023	Industrial Sewing Machines — Glossary of Terms and Identification Symbols ( First Revision )
42	Gaskets And Packing Sectional Committee MED 30	Revision	IS 10008 : 2024	Beater Addition Jointings Specification
43	Gaskets And Packing Sectional Committee MED 30	Revision	IS 10330 : 2024	Formed Asbestos Packing Rings for High Pressure and High Temperature Valves Specification

SI No.	Committee name and number	Revision/ New	IS NO	Title
44	Gaskets And Packing Sectional Committee MED 30	Revision	IS 10864 : 2024	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification Second Revision
45	Gaskets And Packing Sectional Committee MED 30	Revision	IS 2712 : 2024	Gaskets and Packings Compressed Asbestos Fibre Jointing Specification
46	Gaskets And Packing Sectional Committee MED 30	Revision	IS 4688 : 2024	Proofed Cotton Duck Gland Packing — Specification (First Revision)
47	Gaskets And Packing Sectional Committee MED 30	Revision	IS 5414 : 2024	Gaskets and packings gland packing jute and hemp specification second revision
48	Gaskets And Packing Sectional Committee MED 30	Revision	IS 5566 : 2024	Vegetable fibre base jointing material specification
49	Gaskets And Packing Sectional Committee MED 30	Revision	IS 5569 : 2024	Cork and Cellulose Base Jointing Material - Specification (First Revision)
50	Gaskets And Packing Sectional Committee MED 30	Revision	IS 6210 : 2024	Stress Relaxation of Gasket Material — Method of Test (Second Revision)
51	Gaskets And Packing Sectional Committee MED 30	Revision	IS 7719 : 2024	Metallic Spiral Wound Gaskets — Specification (Second Revision)
52	Gaskets And Packing Sectional Committee MED 30	Revision	IS 9066 : 2024	Lubricated Cotton Gland Packings Specification
53	Photographic Equipment Sectional	New	IS/ISO 69 : 1998	Cinematography 16 mm motion-picture and magnetic film cutting and perforating dimensions

SI No.	Committee name and number	Revision/ New	IS NO	Title
	Committee, MED 32			
54	Utensils, Cutlery And Domestic Hardware Sectional Committee, MED 33	Revision	IS 1660 : 2024	Wrought and Cast Aluminum Utensils — Specification ( Second Revision )
55	Utensils, Cutlery And Domestic Hardware Sectional Committee, MED 33	New	IS 18841: 2024	Cylinder Cartridge for Locks - Specification
56	Safety of Machinery Sectional Committee, MED 40	New	IS/ISO TS 19837 : 2018	Safety of Machinery — Trapped Key Interlocking Devices — Principles for Design and Selection
57	Safety of Machinery Sectional Committee, MED 40	New	IS/ISO/TR 14121-2 : 2012	Safety of Machinery — Risk Assessment Part 2 Practical Guidance and Examples of Methods

The Council may **NOTE**.

**4.2.2** The following International Standards were recommended by the respective committees for adoption as Indian Standards, under have been adopted and published as Indian Standards.

SI No.	Committee No.	Committee Name	IS/ISO/IEC Title and Its Number
1.	MED 03	Refrigeration and Air Conditioning Sectional Committee	IS 16678 (Part 4) : 2024/ ISO 5149-4:2022 Refrigerating Systems and Heat Pumps - Safety and Environmental Requirements Part 4 Operation, Maintenance, Repair and Recovery (First Revision)
2.	MED 03	Refrigeration and Air Conditioning Sectional Committee	IS 16753 (Part 5) : 2024/ ISO 29463-5 : 2022 High-Efficiency Filters and Filter Media for Removing Particles in Air Part 5 Test Method for Filter Elements (First Revision)
3.	MED 03	Refrigeration and Air Conditioning Sectional Committee	IS 18846 : 2024/ IEC TR 63061:2017 Adjusted volume calculation for refrigerating appliances
4.	MED 03	Refrigeration and Air Conditioning Sectional Committee	IS 18847 : 2024/ ISO 22712: 2023 Refrigerating systems and heat pumps Competence of personnel
5.	MED 03	Refrigeration and Air Conditioning Sectional Committee	IS 2167 : 2024/ ISO 22044:2021 Commercial Beverage Coolers - Classification, Requirements and Test Conditions (Third Revision)
6.	MED 10	Wire Ropes And Wire	IS 2365/ ISO 4344 - Steel Wire Ropes For Lifts -

SI No.	Committee No.	Committee Name	IS/ISO/IEC Title and Its Number
		Products Sectional Committee	Minimum Requirements (Third revision)
7.	MED 16	Gas Cylinders Sectional Committee	IS/ISO 11120 : 2015 Gas Cylinders Refillable Seamless Steel Tubes Of Water Capacity Between 150 L And 3 000 L Design Construction And Testing
8.	MED 16	Gas Cylinders Sectional Committee	IS/ISO 11119 : Part 1 : 2020 Gas Cylinders - Design Construction And Testing Of Refillable Composite Gas Cylinders And Tubes Part 1 Hoop Wrapped Fibre Reinforced Composite Gas Cylinders And Tubes Up To 450 Litres
9.	MED 16	Gas Cylinders Sectional Committee	ISO 20421-1 : 2019 Cryogenic Vessels - Large Transportable Vacuum-Insulated Vessels Part 1 Design Fabrication Inspection And Testing (Modified Adoption Of Iso 20421-1) <b>Under Print</b>
10.	MED 16	Gas Cylinders Sectional Committee	IS/ISO 11114 : PART 2: 2013 Gas Cylinders - Compatibility Of Cylinder And Valve Materials With Gas Contents: Part 2 Non-Metallic Materials (Second Revision) ( Adoption Of Iso 11114-2 )
11.	MED 18	Construction Plant and Machinery Sectional Committee	IS/ISO 13105 : Part 1: 2014 Building Construction Machinery And Equipment Machinery For Concrete Surface Floating And Finishing Part 1 Commercial Specifications (First Revision) <b>Under Development</b>
12.	MED 25	Printing Machinery Sectional Committee	IS/ISO 12643-2 Graphic Technology Safety Requirements For Graphic Technology Equipment And Systems Part 2 Prepress And Press Equipment And Systems (First Revision)
13.	MED 25	Printing Machinery Sectional Committee	IS/ISO 12643-3 Graphic Technology Safety Requirements For Graphic Technology Equipment And Systems Part 3 Binding And Finishing Equipment And Systems (First Revision)
14.	MED 25	Printing Machinery Sectional Committee	IS/ISO 12643-4 Graphic Technology Safety Requirements For Graphic Technology Equipment And Systems Part 4 Converting Equipment And Systems (First Revision)
15.	MED 25	Printing Machinery Sectional Committee	IS/ISO 12643-5 Graphic Technology Safety Requirements For Graphic Technology Equipment And Systems Part 5 Manually Fed Stand Alone Platen Presses (Adoption Of Iso 12643-5 )
16.	MED 38	Mechanical Equipment Used in Refueling Stations for Petroleum and Gaseous Fuel Sectional Committee	ISO 12617 Road vehicles — Liquefied natural gas (LNG) refuelling connector — 3.1 MPa connector

The Council may **NOTE**.

#### 4.2.3 New Subjects for Formulation of Indian Standards

The following new subjects are identified for standards formulation by respective Sectional Committees:

Sl No.	Committee No.	Committee Name	New Subject Title
1.	MED 03	Refrigeration and Air Conditioning Sectional Committee	Heat Pump Water Heater
2.	MED 03	Refrigeration and Air Conditioning Sectional Committee	Service Valves related to Refrigeration and Air Conditioning
3.	MED 24	Security Equipment Sectional Committee	Safes for domestic and commercial use
4.	MED 24	Security Equipment Sectional Committee	High Security Electronic Locks
5.	MED 25	Printing Machinery Sectional Committee	Printed Electronics
6.	MED 29	Sewing Machines Sectional Committee	Embroidery Sewing machines
7.	MED 33	Utensils, Cutlery and Domestic Hardware Sectional Committee	Cutlery Items - Specification

The Council may **CONSIDER** and **APPROVE** proposals.

#### 4.3 Harmonization of Standards

The global trade has necessitated harmonization of Indian standards with ISO/IEC/EN standards. The position of harmonized standards as on 10 November 2024 is given below:

TYPE OF HARMONIZATION	NUMBER OF STANDARDS
Indian standards harmonized with ISO standards	448
Indian standards harmonized with IEC standards	8

The Council may **NOTE**.

#### 4.4 Withdrawal/Supersession of Indian Standards

The following standards have been recommended for withdrawal by various sectional committees due to the reasons mentioned against each standard:

SI No.	Sectional Committee	IS No and Title	Reasons for Withdrawal/ Supersession
1.	MED 01	IS 13619: 1993 Industrial steam and hot water boiler plants - Maintaining of log and summary sheets - Recommendations	IS 13619 : 1993 may be withdrawn because the product is obsolete.
2.	MED 01	IS 9330: 1979 Terminology for parameters of waste heat boilers and boilers for special purposes	The provisions of IS 9330 has been already incorporated by merging in IS 8595 : 2023.
3	MED 14	IS 6217 : 1982 Specification for short link chain, grade S (6), non - Calibrated for lifting purposes (First Revision)	The standard IS 6217 : 1982 may be withdrawn because the product is obsolete.
4	MED 14	IS 6296 : 1983 Specification for short link chain grade S(6) calibrated for pulley blocks and other lifting appliances (First Revision)	IS 6296 : 1983 may be withdrawn because the product is obsolete.
5	MED 22	IS 11421: 1985 Techniques of pulsation for suppression for reciprocating compressors	IS 11421 : 1985 may be withdrawn because the product is obsolete.
6	MED 26	IS 1384: 1999 Oil pressure lanterns - Specification (Third Revision)',	IS 1384: 1999 may be withdrawn because the product is obsolete.
7	MED 26	IS 1238: 2005 Hurricane lanterns - Specification (Fifth Revision)'	IS 1238: 2005 may be withdrawn because the product is obsolete.
8	MED 26	IS 4957: 1968 'Specification for mantle holders, nozzle type'	IS 4957: 1968 may be withdrawn because the product is obsolete.
9	MED 28	IS/ISO 10816-4 : 2009 Mechanical vibration - Evaluation of machine vibration by measurements on non - Rotating parts: Part 4 gas turbine sets with fluid - Film bearings	IS/ISO 10816-4 : 29 may be withdrawn as it was superseded by IS/ISO 20816-4:2018.
10	MED 32	IS 7397 : 1986 B-chain electro-acoustic response of motion picture sound reproduction system	Committee decided to adopt ISO 2969:2015, which will supersede IS 7387:1986.
11	MED 32	IS 10750 (Part 1) : 1983 Shutter Cable Release, Photographic - Part 1 : Fitting Dimensions of Tip and Socket	IS 10750 (Part 1) : 1983 may be withdrawn because the product is obsolete.
12	MED 33	IS 15104 (Part 2) : 2002) Materials and articles in contact with foodstuffs - Cutlery and table holloware: Part 2 requirements for stainless steel and silver - Plated cutlery	IS 15104 (Part 2) may be withdrawn as it is causing duplicacy with Indian Standards on spoons, forks and knives.

The Council may **CONSIDER** and **APPROVE**

## ITEM 5 PROMOTIONAL ACTIVITIES

### 5.1 Seminar/Conferences/Workshops Organized by BIS

Since the last meeting of the Council the Mechanical Engineering Department organized various conferences, seminars, technical get-togethers, meetings, etc with a view to propagate the concepts of Standardization and to disseminate information about availability of Indian Standards, and new developments in Standardization and Conformity Assessment. The details are given below:

Sl No.	Committee	Seminar/Workshop/Conference Title	Date & Place
1.	MED 03	Sustainability in Air Conditioning Equipment	11 November 2024, IIT Roorkee
2.	MED 06	Workshop on Indian Standard on Ropeways in association with NHLML	30 May 2024, Lal C. Verman Conference Hall, Manak Bhawan, BIS, New Delhi, India
3.	MED 16	Seminar on 'Smart Regulators' (Along with PGD)	17 May 2024, Lal C. Verman Conference Hall, Manak Bhawan, BIS, New Delhi, India
4.	MED 25	National Seminar on 'Emerging Trends in the Field of Printing Machinery'	18-10-2024 Avinashilingam University, Coimbatore
5.	MED 33	Awareness Seminar on 'SS Utensils and Raw Material'	26 July 2024 Jodhpur, Rajasthan

**5.1.1** An annual Convention for Deans and HoDs of MoU Institutes was organized on 20-21 September 2024 in Goa to create awareness on standardization activity and to bring experts from academia into technical committees. A brief report is enclosed at Annex 7 (Page 103-104).

The Council may **NOTE**.

### 5.2 Participation in Seminars/Workshops Organized by other Bodies

The officers of Mechanical Engineering Department actively participated in various conferences, seminars, technical get-togethers, meetings, etc. organized by various organizations with a view to propagate the concepts of Standardization and to disseminate information about availability of Indian Standards, and new developments in Standardization and Quality Promotion Programmes. The details are given below:

Sl No.	Workshop/Conference Title	Date & Place	Officer	Presentation on
1.	Roundtable discussion on adopting High Efficiency Domestic PNG Stoves	27 June 2024 , India Habitat Center	Shri Sandeep Kesahv, Sc-D	Presentation on latest technological development in LPG & PNG Stoves.



2.	Ozone Officers of South Asia and West Asia countries organized by MoEFCC and UNEP	25 Sep 2024, Mammalapuram, Tamil Nadu	Ms Neha Thakur, Sc.-C, MED	Ms Neha Thakur, Sc.-C, MED gave a presentation during Ozone Officers of South Asia and West Asia countries at the ITC Kances Palm Beach facility at Mammalapuram (Mahabalipuram), Tamil Nadu on 25 September 2024.
3.	VRF MELA 2.0 organized by RATA	27 Sep 2024, EROS Hotel, New Delhi	Ms Neha Thakur, Sc.-C, MED	Neha Thakur, Sc.-C, MED participated as one of the panelists in session 'Standards in VRF including BEE Labeling' in VRF MELA 2.0, organized by RATA on 27 Sep 2024 at EROS Hotel, New Delhi.
4.	Stakeholder Consultation meeting to discuss on Air Cooler and Air Filters (Quality Control) Order, 2023	5 Sep 2024, Virtual	Ms Neha Thakur, Sc.-C, MED AND OFFICERS OF CMD 1, CMD-3, LRMD AND FMCD.	Neha Thakur, Sc.-C, MED apprised of the status of the standards under the QCO.
5.	Steering Committee Meeting chaired by Secy MoEFFCC	20 Aug 2024, Indira Paryavaran Bhavan	Shri K. V. Rao, Sc.-F, MED. Ms Neha Thakur, Sc.-C, MED	BIS updated the steering Committee of the action taken report pertaining to formulation of standards on RAC and refrigerants.
6.	Consultative Meeting with the Stakeholders of Evaporative Air Coolers	23 Aug 2024, Virtual	Ms Neha Thakur, Sc.-C, MED	Stakeholders were updated on the status of Indian Standard on Air Cooler. They were also informed of the revised clauses in revised standard IS 3315:2024 wrt IS 3315:2019.
7.	Stakeholder Consultation meeting chaired by JS, DPIIT	27 Aug 2024, Virtual	Ms Neha Thakur, Sc.-C, MED	Stakeholders updated on implementation of QCO on AC and compressors.
8.	Stakeholder Consultation meeting to discuss on Cookware, Utensils and cans for food and beverages (Quality Control) Order, 2024.	30 Aug 2024	Mr Lokraj Meena, Sc.-C, MED AND OFFICERS OF CMD 1, CMD-3, LRMD AND FMCD.	Lokraj Meena, Sc.-C, MED apprised of the status of the standards under the QCO.
9.	Workshop on Quality Control in GH2: Standards & Testing infrastructure	08 May 2024 Sushma Swaraj Bhawan, New Delhi	Shri K. V. Rao, Sc.-F, MED. Shri Prasoon Yadav, Sc.-C, MED	Important discussions were held related to Green Hydrogen standards, their importance and how will they be implemented in the country.
10.	GH Standards- Workshop- Call with BSI, BEE, BIS, FCDO	5 September 2024, Virtual	Shri Sandeep Keshav, Sc. D, MED. Shri Prasoon Yadav, Sc.-C, MED	Important discussions were held related to Green Hydrogen standards, their importance and how cooperation can help both countries.

The Council may **NOTE**.

### 5.3 Guest Lecture/Outreach Visits

SI No.	Workshop/Conference Title/Outreach Visits	Date & Place	Officer/Expert
1.	Outreach Visits	25 Jul 2024, Nanobot Houswares Pvt Ltd, Jodhpur	Shri Lokraj Meena, Sc. C
2.	Outreach Visits	26 & 27 Sep 2024, Godrej & Boyce Manufacturing Pvt Ltd, Thivim	Shri Lokraj Meena, Sc. C
3.	Outreach Visits	19 Oct 2024, Autoprint Pvt Ltd, Coimbatore	Shri Lokraj Meena, Sc. C

4.	Technical Lecture	22 Nov 2024, Chandigarh College of Engineering, Chandigarh	Ms. Ankita Vidyarthi, SC.D
5.	Outreach Visit	26 Jul 2024, KOKO Networks Private Limited	Shri Aman Dhanawat, Sc. C
6.	Outreach Visit	07 Jun 2024, Daikin, Neemrana	Ms. Neha Thakur, Sc.C

The Council may **NOTE**.

## ITEM 6 INTERNATIONAL ACTIVITIES

### 6.1 Participation in International Organizations for Standardization

BIS, as one of the founder members of International Organization for Standardization (ISO) continues to take active part in international standardization. It participates in its policy making bodies like Development Committee (DEVCO), Committee on Conformity Assessment (CASCO), Committee on Information (INFCO) and Committee on Consumer Policy (COPOLCO). BIS is a Participating Member on various committees of ISO. Out of these, MED is a Participating Member on 71 Technical Committees. The documents received from these committees are studied by the experts and India's viewpoints/comments on the documents are conveyed to concern ISO Secretariat. A list of such ISO Technical Committees and subcommittees indicating the categories of membership as Participating (P) or Observer (O) Members of MED is given in [Annex 3](#) (Page No. 88-90).

The Council may **NOTE**.

### 6.2 Participation in International Meetings

Indian delegations attended the following ISO/IEC meetings since April 2024:

Sl No	Name of Committee (SC/TC/WG)/Others	Mtg. Date	Mtg. Place & Country	National Mirror Committee and Indian Delegation	Fund type
1.	IEC/TC 4 'Hydraulic Turbines'	09-15 June 2024	Virtual	MED 22 1. Lokraj Meena, Sc. C, BIS 2. Prof Arun Kumar, IIT Roorkee	NA
2.	ISO/TC 195/SC 2/WG 2 'Sweepers'	24 June 2024	Virtual	MED 18 1. Shri Vivek.P (Member) Roots Multiclean Limited, Coimbatore 2. Shri Prasoon Yadav, Sc. C, MED	NA
3.	ISO/TC 186 'Cutlery and table and decorative metal hollow-ware'	08 August 2024	Virtual	MED 33 1. Lokraj Meena, Sc. C, BIS 2. Vishwanath Shenoy, Expert In personal Capacity	NA

Sl No	Name of Committee (SC/TC/WG)/Others	Mtg. Date	Mtg. Place & Country	National Mirror Committee and Indian Delegation	Fund type
				3. Vikas Jain, Nanobot 4. Rajiv Aggarwal, Autopress	
4.	07th CAG1 meeting of ISO/TC 332 “Security equipment for financial institutions and commercial organizations”	09 August 2024	Virtual	MED 24 1. Shri Prashant C. (Chairman) 2. Shri Devidas Thorat (Member) 3. Shri Sandeep Keshav (Committee Manager)	NA
5.	ISO Regional Engagement Policy (REP) Activities - Request for Presentation by ISO/TC 332 Secretariat in ISO Regional Monthly Forum	21 August 2024	Virtual	MED 24 1. Shri Prashant C. (Chairman)	NA
6.	ISO/TC 108/SC 2 ‘Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures’	02 September 2024	Virtual	MED 28 1. Shri Prasoon Yadav, Sc. C, MED 2. Ms Chitra Gautam, Principal Scientist, CSIR - NPL, New Delhi 3. Dr. Naveen Garg, Sr. Principal Scientist, CSIR - NPL, New Delhi	NA
7.	IEC/TC 61/SC 61C/WG 4 - Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor (0th Plenary Meeting)	04-06 September 2024	Face to Face Eschborn, Germany	MED 03 1. ShriVikas Mehta (Member) (The Chemours India Pvt. Ltd, Gurugram)	Non-BIS Fund
8.	IEC/TC 61/SC 61D/MT 28 - Maintenance of IEC 60335-2-40 (0th Plenary Meeting)	09-11 September 2024	Face to Face Copenhagen, Denmark	MED 03 1. ShriVikas Mehta (Member) (The Chemours India Pvt. Ltd, Gurugram)	Non-BIS Fund
9.	ISO/TC 195/SC 2/WG 2 ‘Sweepers’	10 September 2024	Virtual	MED 18 1. Shri Vivek.P (Member) Roots Multiclean Limited, Coimbatore 2. Shri Prasoon Yadav, Sc. C, MED	NA
10.	ISO/TC 86/SC 8/TF 3 - Refrigerant stability classification (2nd Plenary Meeting)	11 September 2024	Virtual	MED 03 1. ShriVikas Mehta (Member) (The Chemours India Pvt. Ltd, Gurugram)	Non-BIS Fund

Sl No	Name of Committee (SC/TC/WG)/Others	Mtg. Date	Mtg. Place & Country	National Mirror Committee and Indian Delegation	Fund type
11.	ISO/TC 195/SC 2/WG 2 'Sweepers'	7 October 2024	Virtual	MED 18 1. Shri Vivek.P (Member) Roots Multiclean Limited, Coimbatore 2. Shri Prasoon Yadav, Sc. C, MED	NA
12.	8th CAG1 meeting of ISO/TC 332 "Security equipment for financial institutions and commercial organizations"	22 November 2024	Virtual	MED 24 1. Shri Prashant C. (Chairman) 2. Shri Devidas Thorat (Member) 3. Shri Sandeep Keshav (Committee Manager)	NA
13.	IEC/TC 59/SC 59M - Performance of electrical household and similar cooling and freezing appliances	28 November 2024	Virtual	MED 03 1. Ms Neha Thakur, Sc.C, MED	NA
14.	ISO/TC 301 'Energy management and energy savings'	30 September 2024	Virtual	MED 39 1. Shri Suhas Lohokare, Chairperson MED 39 2. Shri Shubham Tiwari, Member Secretary MED 39	NA

**6.2.1** BIS is holding a secretariat of ISO/TC 332 "Security equipment for financial institutions and commercial organizations". A plenary meeting was conducted as per the details given below:

Sl No	Name of Committee (SC/TC/WG)/Others	Mtg. Date	Mtg. Place & Country	National Mirror Committee and Indian Delegation	Fund type
1.	03rd Plenary meeting of ISO/TC 332 "Security equipment for financial institutions and commercial organizations"	22 November 2024	Virtual	MED 24 1. Shri Prashant C. (Chairman) 2. Shri Devidas Thorat (Member) 3. Shri Sandeep Keshav (Committee Manager) 4. Ajay Kumar Jadhav (Member)	NA

The Council may **NOTE**.

### 6.3 ISO/IEC Ballots Processed

Since the last meeting of MEDC, **330** ISO/IEC ballots have been processed as on **10 November 2024**.

The Council may **NOTE**.

## 6.4 Transfer of Subject

No transfer of subjects/standards have been recommended by the Sectional Committees since the last MEDC meeting.

The Council may **NOTE**.

### ITEM 7 Quality Control Orders (QCOs)

The Government of India, through various ministries have recently issued/is in the process of issuing Technical Regulations/Quality Control Orders (QCO) in respect of the following items pertaining to MEDC:

SI No.	Title of QCO	IS No & Title	Committee	QCO Implementation Date	Issuing Ministry
5.	Air Conditioner and its related Parts, Hermetic Compressor and Temperature Sensing Controls (Quality Control) Order, 2019	IS 1391 (Part-1): 2017 Room Air Conditioners- Specification Part 1 Unitary Air Conditioners	MED 03	29 December 2023	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
6.	Air Conditioner and its related Parts, Hermetic Compressor and Temperature Sensing Controls (Quality Control) Order, 2019	IS 1391 (Part-2) : 2018 Room Air Conditioners- Specification Part 2 Split Air Conditioners	MED 03	29 December 2023	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
7.	Air Conditioner and its related Parts, Hermetic Compressor and Temperature Sensing Controls (Quality Control) Order, 2019	IS 8148 : 2018 Ducted and Package Air Conditioners	MED 03	29 December 2023	Ministry of Commerce and Industry - Department for Promotion of Industry and Internal Trade (DPIIT)
8.	Air Conditioner and its related Parts, Hermetic Compressor and Temperature Sensing Controls (Quality Control) Order,	IS 11329 : 2018 Finned type Heat Exchanger for Room Air Conditioner	MED 03	29 December 2023	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs, Ministry of Commerce and Industry -

SI No.	Title of QCO	IS No & Title	Committee	QCO Implementation Date	Issuing Ministry
	2019				Department for Promotion of Industry and Internal Trade (DPIIT)
9.	Air Conditioner and its related Parts, Hermetic Compressor and Temperature Sensing Controls (Quality Control) Order, 2019	IS 10617 : 2018 Hermetic Compressors - Specification	MED 03	29 December, 2023	Ministry of Commerce and Industry - Department for Promotion of Industry and Internal Trade (DPIIT)
10.	Refrigerating Appliances (Quality Control) Order, 2020	IS 17550 (Part 1): 2021 Household Refrigerating Appliances- Characteristics and Test Methods part-1 General Requirements	MED 03	14 December, 2022	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
11.	Refrigerating Appliances (Quality Control) Order, 2020	IS 7872 : 2020 Deep Freezers - Specification (Second Revision)	MED 03	14 December, 2022	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
12.	Self-Contained Drinking Water Coolers (Quality Control) Order, 2023	IS 1475 (Part 1) : 2001 Self- Contained Drinking Water Coolers – Energy Consumption and Performance	MED 03	24 May 2024	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
13.	Bottled Water Dispenser (Quality Control) Order, 2023	IS 17681:2022 Bottled water dispensers	MED 03	03 June 2024	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
14.	Air Cooler and Air Filters (Quality Control) Order, 2023	IS 3315 : 2024 Direct Evaporative Air Cooler - Specification ( <i>Fourth Revision</i> )	MED 03	05 March 2024	Ministry of Consumer Affairs, Food and Public Distribution - Department of Consumer Affairs
15.	Air Cooler and Air Filters (Quality Control) Order, 2023	IS 17570 (Part 1): 2021/ISO 16890-2: 2016 Air Filters for general ventilation – Technical specifications requirements and classification system based upon particulate matter efficiency (ePM)	MED 03	05 March 2024	Ministry of Agriculture - Department of Agriculture and Farmer Welfare
16.	Gas Cylinder Rules, 2016	IS 14899 : 2014 Liquefied petroleum gas containers for automotive use	MED 16	22 November 2016	Ministry of Commerce and Industry
17.	Gas Cylinder Rules, 2016	IS 15100 : 2018 Multifunction valve assembly for	MED 16	22 Novemb	Ministry of Commerce and

Sl No.	Title of QCO	IS No & Title	Committee	QCO Implementation Date	Issuing Ministry
		permanently fixed liquefied petroleum gas (LPG) containers for automotive use		er 2016	Industry
18.	Gas Cylinder Rules, 2016	IS 3196 (Part 4) : 2001 Welded low carbon steel cylinders exceeding 5 litre Water capacity for low pressure liquefiable gases Part 4 Cylinders for toxic and corrosive gases	MED 16	22 November 2016	Ministry of Commerce and Industry
19.	Gas Cylinder Rules, 2016	IS 3196 (Part 1) : 2013 Welded low carbon steel gas cylinder exceeding 5 litre water capacity for low pressure liquefiable gases Part1 Cylinders for liquefied petroleum gas (LPG)	MED 16	22 November 2016	Ministry of Commerce and Industry
20.	Gas Cylinder Rules, 2016	IS 3196 (Part 2) : 2006 Welded low carbon steel gas cylinder exceeding 5-litre water capacity for low pressure liquefiable gases Part 2 Cylinders for liquefiable gases other than LPG.	MED 16	22 November 2016	Ministry of Commerce and Industry
21.	Gas Cylinder Rules, 2016	IS 3224 : 2021 Valve fittings for compressed gas cylinder excluding liquefied petroleum gas cylinders	MED 16	22 November 2016	Ministry of Commerce and Industry
22.	Gas Cylinder Rules, 2016	IS 3745 : 2024 Yoke Type Valve Connection for Small Medical Gas Cylinders	MED 16	22 November 2016	Ministry of Commerce and Industry
23.	Gas Cylinder Rules, 2016	IS 7142 : 1995 Welded low carbon steel cylinders for low pressure liquefiable gases not exceeding 5 litre water capacity	MED 16	22 November 2016	Ministry of Commerce and Industry
24.	Gas Cylinder Rules, 2016	IS 7285 (Part 1) : 2018 Refillable Seamless steel gas cylinders Part1 Normalized steel cylinders	MED 16	22 November 2016	Ministry of Commerce and Industry
25.	Gas Cylinder Rules, 2016	IS 7285 (Part 2) : 2017 Refillable Seamless steel gas cylinders Part 2 Quenched and tempered steel cylinders with tensile strength less than 1100 MPa (112 kgf/mm <sup>2</sup> )	MED 16	22 November 2016	Ministry of Commerce and Industry
26.	Gas Cylinder Rules, 2016	IS 7302 : 2018 Valve fittings for gas cylinder valves for use with breathing apparatus	MED 16	22 November 2016	Ministry of Commerce and Industry
27.	Gas Cylinder Rules, 2016	IS 7312 : 2018 Welded and seamless steel dissolved acetylene gas cylinders	MED 16	22 November 2016	Ministry of Commerce and Industry
28.	Gas Cylinder Rules, 2016	IS 8737 : 2017 Valve fittings for use with liquefied petroleum gas cylinders of more than 5 litre water capacity Part 2 Valve fittings for newly manufactured LPG cylinders	MED 16	22 November 2016	Ministry of Commerce and Industry
29.	Gas Cylinder Rules, 2016	IS 8776 : 2024 Valve Fittings for Use with Liquefied Petroleum Gas (LPG) Cylinders up to	MED 16	22 November 2016	Ministry of Commerce and Industry

Sl No.	Title of QCO	IS No & Title	Committee	QCO Implementation Date	Issuing Ministry
		and Including 5-Litre Water Capacity			
30.	Gas Cylinder Rules, 2016	IS 9798 : 2013 Low pressure regulators for use with liquefied petroleum gas (LPG) mixtures	MED 16	22 November 2016	Ministry of Commerce and Industry
31.	Butterfly valves (Quality Control) Order, 2020	IS 13095 : 2020 Butterfly Valves for General Purposes ( First Revision )	MED 17	01 January 2021	Ministry of Commerce and Industry - Department for Promotion of Industry and Internal Trade (DPIIT)
32.	Safes, safe deposit locker cabinets and key locks	IS 17566:2021 Key Locks for Security Equipment — Specification	MED 24	08 June 2024	Ministry of Commerce and Industry
33.	Safes, safe deposit locker cabinets and key locks	IS 5244:2020 Safe Deposit Locker Cabinets — Specification ( Fourth Revision )	MED 24	08 June 2024	Ministry of Commerce and Industry
34.	Sewing Machines (Quality Control) Order, 2021	IS 15449 : Part 1 : 2004 Household Zig-Zag Sewing Machine Head	MED 29	15 November 2021	Ministry of Commerce and Industry
35.	Omnibus Technical Regulations	Safety of Machinery	MED 40	28 August 2025	Ministry of Heavy Industries

The Council may **NOTE**.

#### **ITEM 8 Standards of MED under BIS Certification (Mandatory and Voluntary)**

Various Quality Control orders were issued over a period of time by various Ministries of Government of India by bringing products for which Indian standards were formulated by MED, under Mandatory certification scheme of BIS. A total of 59 standards have been brought under the mandatory BIS certification scheme. The number of BIS certification marks licences granted against MED standards are given at **Annex 4** (Page No. 90-97). The list of standards under mandatory certification of MED are listed in **Annex 5** (Page No. 97-100) and can also be seen on the following web pages of BIS website:

<https://www.bis.gov.in/index.php/product-certification/products-under-compulsory-certification/scheme-i-mark-scheme/>

and

<https://www.bis.gov.in/index.php/product-certification/products-under-compulsory-certification/scheme-4/>



## ITEM 9 RESEARCH AND DEVELOPMENT ACTIVITIES

9.1 The recently revised guidelines for R&D projects is attached below;

[https://www.services.bis.gov.in/tmp/research\\_guidelines.pdf](https://www.services.bis.gov.in/tmp/research_guidelines.pdf)

The idea is that in principle no standard should be developed without intensive and insightful research work, which is not confined only to the review of the existing literature and focus group discussions on the subject chosen for standardization, but also covers the detailed field level study of the existing processes and practices in product manufacturing and service delivery.

Terms of reference of the 08 R&D projects proposed (listed below) by MED department have been hosted on BIS website, out of which proposals have been received for 01 project. The details of the projects are available at [www.manakonline.in](http://www.manakonline.in) or by click on following link:

[https://www.services.bis.gov.in/php/BIS\\_2.0/eBIS/research-projects-commissioned](https://www.services.bis.gov.in/php/BIS_2.0/eBIS/research-projects-commissioned) .

### List of R&D Projects on which proposals are received

Sl No.	Project Code	Title of The Project	Sectional Committee	Number of proposals received
1	MED 0277	Maximum service life of LPG cylinders (as per IS 3196-1) and reconditioned cylinders (as per IS 13258)	MED 16	8

The Council may **NOTE**.

## ITEM 10 TBT NOTIFICATION AND WTO-TBT ENQUIRY POINT

10.1 World Trade Organization (WTO) is the International Organization dealing with global rules of trade between nations. The Technical Barriers to Trade Agreement (TBT) tries to ensure that Regulations, Standards, Conformity Assessment procedures do not create unnecessary obstacles to trade. Manufactures and exporters of each country need to know about the latest standards and technical regulations in their prospective markets. To help ensure that this information is made available conveniently, all WTO member Governments are required to establish National Enquiry Point. India is a signatory to the WTO TBT Agreement. Under this Agreement, India has to fulfil certain obligations such as establishing an enquiry point and transparency of its standards and its regulations. BIS functions as the enquiry point for all queries except the telecom sector, as nominated by Ministry of Commerce, the nodal Ministry with WTO. For telecom sector, Telecommunication Engineering Centre (TEC) is the nominated enquiry point.

10.2 As the WTO TBT Enquiry Point, BIS answers all the reasonable enquiries pertaining to Technical Regulation, Standards and Conformity Assessments procedures addressed to it from the Enquiry Points of other countries. It also serves as the information centre within the country. Additionally, BIS also disseminates the TBT Notifications of other member bodies to the National Stakeholders.

**10.3** The awareness regarding TBT notifications is lacking among various stakeholders in India and as a result India is seldom sending its comments on draft notifications by other countries, which may be of trade interest to India. As signatory of WTO-TBT agreement, there is a greater need for us to be aware of the TBT notifications issued by different countries in order to protect our interest.

**10.4** BIS disseminates through its portal the TBT Notifications of other countries to the Indian Stakeholders with a view to seek their comments and taking up the same at appropriate forum. These are uploaded on the BIS portal, as and when received from TBT notification issuing country. The stakeholders are expected to examine the notifications on the following aspects:

- a) Are the notifications in accordance with International Standards?
- b) Are they stricter than the International Standards?
- c) Are they stricter, than the International Standards, than necessary to meet the legitimate objective of:
  - Protection of human health or safety;
  - Animal or Plant life or health;
  - Environment Protection.

**10.5** All interested stakeholders may register themselves to get information about the latest TBT Notifications which may be sorted based on areas of interest. The stakeholders may also comment upon these notifications; which shall then be taken up with Department of Commerce for suitable taking up with the notifying country.

**10.6** For specific trade concerns, one may write to BIS at:  
[tisd@bis.gov.in](mailto:tisd@bis.gov.in) OR [ird@bis.gov.in](mailto:ird@bis.gov.in) OR [enquiry@bis.gov.in](mailto:enquiry@bis.gov.in)

The Council may **NOTE**.

## **ITEM 11 BIS CERTIFICATION SCHEMES**

**11.1** BIS operates various Certification Schemes, information on which is given in **Annex 6** (Page No. 100-102).

**11.2** Details of products requiring mandatory certification is available on BIS website at

<https://www.bis.gov.in/index.php/product-certification/products-under-compulsory-Certification/>

The Council may **NOTE**.

## **ITEM 12 INITIATIVES TAKEN BY BIS MANAGEMENT IN STANDARDS DEVELOPMENT ACTIVITY**

### **12.1 Digitization of Standardization Activity in BIS**

**12.1.1** BIS has developed e-BIS (<https://www.manakonline.in>) bringing a wide range of activities like standards development, conformity assessment, testing, etc. under a single portal. To cater to the growing demand from stakeholders and to make the end to end standardization process more efficient and inclusive in terms of engaging and collaborating with the stakeholders, BIS has moved its entire standard formulation activity to the digital mode.

**12.1.2** The standards development activities have migrated to a digital platform where the standards development work is carried out online with provisions for accessing, sharing and commenting on documents/Indian Standards by any stakeholder available online. Facility for free access to and downloading of indigenous Indian Standards have also been made. All the stages involved in formulation of an Indian Standard starting from receipt of a proposal for developing a standard, circulation of preliminary draft standard to members of technical committees and wide circulation draft to stakeholders and further processing of documents for its publication are carried out through the Standards Formulation Portal.

**12.1.3** Also, other associated activities related to conduct of meetings of technical committees like circulation of meeting notice, agenda and minutes, updation of programme of work of committees as well as its composition, are being done through this portal. Based on their role, members of technical committees and other relevant stakeholders are given access to the module so that they can keep themselves abreast with the work of the committee and send their proposals or comments on standards/ draft standards through the module itself. This has resulted in transformation of the entire spectrum of standards formulation activity.

**12.1.4** All Chairmen and members of all technical committees including that of Division Council can access the above through a UNIQUE ID provided earlier to them.

**12.1.5** Tutorial videos about the various other features are available in the above portal too. All the members are requested to use this platform for all standardization related activities.

**12.1.6** BIS is also doing capacity building of the technical committee members on standardization processes and procedures through training programs to sensitize them and train them on the usage of digital tools in the standard formulation process.

The Council may **NOTE**.

## **12.2 Pro-active Actions for Dissemination of Information through Social Media**

Since last meeting of the Council, a series of important Indian Standards have been published and number of workshops/ seminars have been conducted by BIS for dissemination of information about these. In order to reach large number of stakeholders and communicate effectively with them, social media tools like Facebook, Instagram, WhatsApp, Twitter, LinkedIn, Youtube etc. are being utilized. BIS may be followed at below mentioned links for information on BIS activities:

Facebook: <https://www.facebook.com/IndianStandards/>

Instagram: <https://www.instagram.com/indianstandards/>

YouTube: <http://bit.ly/BISYouTubeOfficial>

LinkedIn: <http://bit.ly/BISLinkedInOfficial>

Twitter: <http://bit.ly/BISTwitterOfficial> (@IndianStandards)

The Council may **NOTE**.

## **12.3 BIS Talks on Standardization in Mechanical Engineering**

**12.3.1** As a part of series on BIS Talks, a video film on Standardization in Mechanical Engineering has been brought out to help widely disseminate among the stakeholders the information about available Indian Standards in Mechanical Engineering covering domains such as planning, structural design, building materials, good construction practices, safety in construction, construction project management, various building and plumbing services, asset and facility management, with focus on accessibility, sustainability and disaster resilience.

**12.3.2** The above video on BIS Talks has been uploaded in you tube and can be viewed using the link:

[https://www.services.bis.gov.in/php/BIS\\_2.0/bistalks/bis-talks-on-mechanical-engineering/](https://www.services.bis.gov.in/php/BIS_2.0/bistalks/bis-talks-on-mechanical-engineering/)

**12.3.3** The information about above BIS Talks may be circulated widely and may be viewed by all stakeholders for better appreciation of the Indian Standards formulated in the field of Mechanical Engineering. The video may be also widely used during professional Seminars/Conferences/Training Programs and also in Classroom Teaching in academics. It can also be used in various programs such as induction training for the newly recruited officials in Institutions/Government Departments/Companies and for refresher training of officials.

The Council may **NOTE**.

## **12.4 Availability of Indian Standards**

**12.4.1** All published Indian Standards (including adoption of ISO standards) are downloadable through the e-sale portal of BIS, [www.standardsbis.in](http://www.standardsbis.in) .

**12.4.2** Soft copies of the Indigenous Indian Standards are now available for access from the BIS website, free of cost. Kindly visit, the following URL for downloading the standards:

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

The Council may **NOTE**.

## **12.5 Memorandum of Understanding with Eminent Institutes**

**12.5.1** Bureau of Indian Standards (BIS), has signed Memorandum of Understanding (MoU) with Academic institutes for collaboration in the field of standardization and conformity assessment. One of the action points of MoU called for establishment of Standardization Chair in reputed institutions for effectively fulfilling the following objectives of MOU:

- a. Identification of suitable domain experts for participation in standardization work at national and international level and to provide inputs during standards development;
- b. Taking up of research projects that would lead to development of standards;
- c. Deciding on areas which can be introduced in the academic curriculum along with short term education programme on Standardization and Conformity Assessment to support standard education;

- d. Identification of the areas for training for knowledge enrichment; and
- e. Identification of innovations on which standards can be developed for facilitating market access.

The following Standardization Chairs have been established until now:

- a) Indian Institute of Technology Roorkee, Roorkee
- b) Indian Institute of Technology Kanpur, Kanpur
- c) Indian Institute of Technology Madras, Chennai
- d) Indian Institute of Technology (ISM), Dhanbad
- e) Indian Institute of Technology-BHU, Varanasi
- f) Indian Institute of Technology Indore , Indore
- g) Indian Institute of Technology Guwahati, Guwahati
- h) Indian Institute of Technology Gandhinagar, Gandhinagar
- i) Indian Institute of Technology Patna, Patna
- j) National Institute of Technology, Rourkela
- k) National Institute of Technology, Tiruchirappalli
- l) National Institute of Technology, Calicut
- m) Malviya National Institute of Technology (MNIT), Jaipur
- n) Indian Institute of Technology Bombay, Mumbai
- o) Indian Institute of Technology Kharagpur, Kharagpur
- p) G B Pant University of Agriculture and Technology, Pantnagar
- q) Indian Institute of Science, Bengaluru

BIS has entered into MOU with a total of 92 premier institutes all over India and is conducting outreach programmes in those institutions.

The Council may **NOTE**.

**12.5.2** The MoUs are in general intended to develop infrastructure support and provide IT based technological solutions for various activities of BIS. The MoUs also envisage cooperation in undertaking R&D projects for development of Indian Standards and introduction of Standardization in the curriculum.

The Council may **NOTE**.

## **12.6 Training to Technical Committee Members on Standardization Processes and Procedures**

**12.6.1** As a part of capacity building of the technical committee members on standardization processes and procedures, BIS is organizing training programs to sensitize them and train them on the standardization processes and procedures and on the usage of digital tools in the standard formulation process.

The Council may **NOTE**.

## **12.7 Standards National Action Plan (SNAP)**

BIS has developed the Standards National Action Plan (SNAP) 2022-2027 with the objectives as given below:

- a) Identification of Standardization Needs and Enhancing Stakeholder Involvement
- b) Making Standardization Processes Efficient and Fast
- c) Ensuring Harmonious Standardization Activities in the Country
- d) Increased Participation and Involvement in International Standardization Activities
- e) Increasing Awareness and Implementation of Standards

Accordingly, SNAP 2022-27 defines the standardization vision and mission of BIS, identifies the strategic imperatives of BIS, draws an action plan towards addressing these through various initiatives, enumerates a set of transcending priorities in standardization, identifies key standardization topics/subjects that are to be taken up assigning the priorities, to be implemented in the next five years, i.e. 2022 to 2027. For all those initiatives and associated actions, the BIS technical committees would play a key role and serve as a guiding force.

[SNAP 2022-27.pdf](#)

The Council may **NOTE**.

## **12.8 National System of Standardization**

**12.8.1** In order to strengthen standardization at national and international level, the Ministry of Consumer Affairs, Food and Public Distribution, Government of India has approved a Scheme for 'National System for Standardization – Strengthening Standardization at National and International level' under Central Government Schemes.

**12.8.2** The components of "Strengthening Standardization at National Level" are as follows:

- a) Research & Development (R&D) Projects for establishment/revision of Indian Standards;
- b) Intensifying participation of the members in BIS Technical Committee Meetings;
- c) Seminars/workshop and training programmes;
- d) Workshops for Technical Committee members;
- e) Training programmes for Standards Developing Organizations (SDOs);
- f) Seminar/workshops for other stakeholders.

**12.8.3** The components of "Strengthening Standardization at International Level" are as follows:

- a) Intensifying participation of BIS officials, Technical Committee Members, other officials and experts in international standardization by participating in International / Regional/ Bilateral meetings/ trainings;
- b) Organizing meeting of International Organization for Standardization (ISO)/ International Electro Technical Commission (IEC) and other international/ regional/ SAARC/ multilateral/ bilateral Meetings/ workshops/ trainings in India.

The Council may **NOTE**.

## **12.9 Declaration on Gender Responsive Standards**

**12.9.1** Achieving gender equality and empowering all women and girls is one of the Sustainable Development Goals (SDG 5) set by the United Nations General Assembly in 2015 for the year 2030. In line with the goal, the United Nation’s Economic Commission for Europe (UNECE) adopted the Gender Responsive Standards Initiative in November 2016 and as part of the initiative, standardization bodies around the world signed the Declaration for “Gender Responsive Standards and Standards Development” that aims to strengthen the use of standards and technical regulations as powerful tools to attain SDG 5, integrate a gender lens in the development of both standards and technical regulations, and elaborate gender indicators and criteria that could be used in standards development.

**12.9.2** Bureau of Indian Standards signed the declaration on 14 May 2019. Signing the declaration would entail commitment to help deliver gender equality and further empower women and girls in the standards development process. The declaration suggests following important commitments that all standards can make:

- i) Working towards gender balanced/representative and inclusive standards development environments;
- ii) Creating gender responsive standards; and
- iii) Creating gender responsive standards bodies.

**12.9.3** The Annex to the Declaration, is maintained on the UNECE website, supports the Declaration for Gender Responsive Standards and Standards Development. The Annex outlines actions that National Standards Bodies and Standards Developing Organizations can include in their gender action plan for gender responsive standards and standards development.

A total of 139 Standardization Cells have been created so far, the details of which are available on BIS website at [www.bis.gov.in](http://www.bis.gov.in).

The Council may **NOTE** and work towards these objectives.

## **12.10 Engagement of consultants in Technical Committees**

**12.10.1** In order to hasten the pace and the extent of standardization, to ensure timely delivery and address complex areas/issues effectively, a Scheme for engagement of consultants to support technical committees in the current standardization activities has been started by BIS.

The Council may **NOTE**.

## **12.11 Formation of Search Committee**

**12.11.1** Please see 3.9 for details.

## **12.12 Development of Strategic Road map by all Division Councils**

**12.12.1** Drawing from the Standards National Action Plan (SNAP), the Division Councils have been advised to develop a Strategic Road Map as a document which would reflect its vision of national standardization in the relevant sectors and provide a broad standardization roadmap with a five-year perspective. The aim is to align the standardization work with national priorities and expressed business environment needs and trends and to allow Sectional Committees to prioritize among different projects, to identify the benefits expected from the availability of Indian Standards, and to ensure adequate resources for their development. It covers an up-to-date

overview of the Division Council's work that would form the basis for the Sectional Committees working under the Division Council which in turn develop their respective standardization plan which can be shared with all interested stakeholders.

**12.12.2** Strategic Road map of MEDC approved is placed as follows:

[SRM-MEDC 03.08.2021.pdf](#)

The Council may **NOTE**

## **12.13 Reforms in Standardization**

**12.13.1** With a view to bring in greater efficiency in the standards formulation, number of structural reforms have been instituted the details of which are mentioned in the letter attached herewith:

[DG Letter.pdf](#)

In order to ensure seriousness on the part of the members of the technical committees, It has been decided that a declaration needs to be signed by all members of the technical committees of BIS wherein to commit to participate actively in the work of the committee. The copy of the declaration is placed below:

### **DECLARATION**

By the Member of the Technical Committee of BIS

1. The Technical Committee is an important mechanism in BIS for formulation and review of the Indian Standards with a well-defined scope of work and norms for the transaction of business thereto in conformity with the good practices enunciated by the 'Code of Good Practice for the Preparation, Adoption and Application of Standards' given in the 'Agreement on Technical Barriers to Trade' of World Trade Organization.
2. A member of the Technical Committee is required to attend the meetings of the Technical Committee as per the schedule included in the Annual Calendar of the Technical Committee Meetings as well as the special meetings convened to discuss important issues.
3. In case a member is not able to attend a meeting, prior intimation of this is necessary to be given to the Member Secretary of the Technical Committee. However, a member cannot abstain from attending two consecutive meetings of the Technical Committee, and must attend at least 50% meetings of the Technical Committee held in a year.
4. Failure to attend two consecutive meetings of the Technical Committee and at least 50% meetings of the Technical Committee held in a year, shall attract termination of the membership of the Technical Committee, except in extra-ordinary cases to be considered by the Division Council concerned.
5. A member of the Technical Committee is expected to contribute in discharging the following responsibilities of the Technical Committee:
  - a) Identification of the new subjects for organization.



- b) Preparation of the rolling Annual Action Plan and periodic review of the implementation thereof.
- c) Review of the implementation of the Standardization National Action Plan (SNAP) in relation to the scope of work of the Technical Committee.
- d) Examination of the Annual Programme for Standardization, submitted by the Ministries/Departments of the Central Government.
- e) Approve the annual calendar of Technical Committee meetings.
- f) Discuss and approve the Agenda for Technical Committee Meeting.
- g) Formation of Sub-committees, Panels. Working Groups and Task Forces.
- h) Assigning Action Research Projects.
- i) Identification of R&D projects to be commissioned by BIS and the determination of the Scope and Terms of Reference thereof.
- j) Evaluation of R&D proposals received from outside organizations.
- k) Examination of TC Item Proposals (NWIP) and draft standards received from ISO/IEC.
- l) Participation in the meetings of the Technical Committee or Working Groups of ISO/IEC, as and when nominated by BIS.
- m) Participation if the Workshops /Seminars and Capacity-Building Programmes organized by BIS.

6. It is mandatory for a newly inducted member of the Technical Committee to attend the on-boarding session organized by BIS.

7. It is also mandatory for the Member of the Technical Committee to share comments on the Preliminary and Wide Circulation Drafts under development in the Technical Committee.

8. It is expected for a Member of a Technical Committee to act with impartiality and fairness, free from any undue influence and bias to ensure that the standards established by the Technical Committee address the needs of all the stakeholders equitably.

I, .....(Name)....., hereby declare that having been inducted as a member of the Technical Committee,....., in my individual capacity/as a representative of ....., I have gone through the provisions of this document enunciated above, and place on record my desire and commitment to discharge the responsibilities of the Member of this Technical Committee with utmost sincerity and dedication.

Date:  
Place:

Signature of the Member

The Council may **NOTE**.

### **12.13.2 Creation of Standardization Cells**

To broad-base standardization process and enhance stakeholder involvement, all Central Government Ministries and State Governments were requested for creation of Standardization Cells. Interactions have also been initiated with them in order to facilitate the creation of such cells and sensitize them on their role in development and implementation of standards. Similar outreach has been made to Industry Associations across all sectors.

Standardization Cell is being constituted in various ministries/ association which will help the Ministry/Department in –

1. Identification of the new areas and subjects for Standards Development.
2. Preparation of the Annual Programme for Standardization.
3. Identifying and nominating experts to the Technical committees and working panels of BIS.
4. Examination of the Indian Standards to be included in the guidelines for the programmes and schemes of the department. Identification of the Indian Standards for mandating compulsory certification and drafting of QCOs.
5. Organizing consultation with the industry and other stakeholders to promote the use of Indian Standards and sharing the feedback with BIS and leveraging the capacity-building programmes of BIS.

Till date Standardization cells have been constituted in the nine associations under MED and the details of the same are available at

[https://www.services.bis.gov.in/php/BIS\\_2.0/bisconnect/standcell/Standardscell\\_direct/stnd\\_industry](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standcell/Standardscell_direct/stnd_industry)

The Council may **NOTE**.

#### **12.14 Funding Travel and Stay Expenses of BIS Technical Committee Members**

**12.14.1** Success of standardization is largely dependent on the voluntary participation and contribution of stakeholders, particularly of technical committee members.

**12.14.2** It is often observed that some of the members of technical committees, particularly those representing R&D, scientific and academic institutions as well as those members who are experts in their individual capacity, find it difficult to bear their travel and stay expenses for participating in BIS technical committee meetings or in international meetings owing to limited financial resources. This situation results in committees sometimes missing out on valuable and critical standardization inputs or India not being able to exert influence in international standardization effectively so as to address national needs and interests.

**12.14.3** In order to facilitate active participation of members of technical committees from all sections of stakeholders who may be having limited resources to support their participation in meetings, it was felt necessary to support members of BIS technical committees in this regard by funding their participation in national and international technical committee meetings, wherever required and when fulfilling defined conditions/criteria.

**12.14.4** Guidelines for Payment of TA/DA to Members of BIS Technical Committees under BIS funds has accordingly been proposed and approved by the Executive Committee of BIS. The guidelines are placed as below.

[Guidelines TA-DA.pdf](#)

The Council may **NOTE**.

### **ITEM 13 SUSTAINABILITY PERSPECTIVE IN INDIAN STANDARDS**

In keeping with India's commitment on the UN SDG 2030 and Paris Agreement on Climate Action, there will be specific focus in developing and updating standards so as to address these issues. Climate change mitigation and adaptation through reduction in carbon emissions, carbon foot-printing and life cycle analysis, carbon capture and storage, application of circular economy, ensuring resource efficiency, promoting alternate fuel technologies and renewable energy use, reducing embodied energy and improving thermal performance in buildings through building design and construction, etc. would be some of the approaches/considerations in standards development.

A framework that can provide guidance to the technical committees on how sustainability issues are to be addressed in Indian Standards would be developed. Some of the UN SDGs that are considered to be important from standardization perspective are Climate Action (SDG 13), Good Health and Wellbeing (SDG 3), Gender Equality (SDG 5), Clean Water and Sanitation (SDG 6), Affordable and Clean Energy (SDG 7), Responsible Consumption and Production (SDG 12), Industry, Innovation and Infrastructure (SDG 9) and Sustainable Cities and Communities (SDG 11), and are considered as high priority areas of work. A broad range of aspects that could potentially help in addressing sustainability and climate change through standards include the use of natural resources, ensuring energy efficiency and water efficiency, reducing wastes, use of waste and recyclable materials, reducing pollution in land, air and water, protection of natural habitats, protection of biodiversity, carbon neutrality and net-zero, carbon foot-printing and LCA, application of technology and innovation around these issues, economic performance and development, addressing health and safety, social equity (including concerns like gender responsiveness and accessibility for persons with disabilities and the elderly), quality of life, etc.

The Council may **NOTE**.

### **ITEM 14 DATE AND PLACE FOR THE NEXT MEETING**

### **ITEM 15 ANY OTHER BUSINESS**

**ANNEX 1A***(Item 2.2)***COMPOSITION OF MECHANICAL ENGINEERING DIVISION COUNCIL**

Sl No.	Organization Represented	Name of Representative(s)	25 <sup>th</sup>	26 <sup>th</sup>	27 <sup>th</sup>	Total
1.	BEML Limited, Bengaluru	Shri V. Sekar (Chairperson)	Y	Y	Y	3/3
2.	AIMIL Ltd, New Delhi	Shri Manish Rao Shri Rohitash Barua (Alt)	Y	Y	Y	3/3
3.	BEML Limited, Bengaluru	Shri K.S. Sudarshan	N	N	Y	1/3
4.	Bharat Heavy Electricals Ltd, Hyderabad	Shri Rajeev Kumar	N	Y	Y	2/3
5.	Central Ground Water Board, Faridabad	Shri G.L. Meena Shri Nidhish Verma (Alt)	Y	N	Y	2/3
6.	Coal India Ltd, Kolkata	Shri P.P. Sengupta Shri R.P. Sinha (Alt)	N	N	N	0/3
7.	Confederation of Indian Industry, New Delhi	Shri P.K. Rastogi Shri V.K. Jadon (Alt)	N	N	N	0/3
8.	Engineers India Ltd, New Delhi	Shri G. Balaji Shri K. Anjaneyulu (Alt)	Y	Y	Y	3/3
9.	Federation of Indian Chambers of Commerce and Industry, New Delhi	Shri Rajeev V. Kulkarni Shri Chetan Bijesure (Alt)	N	N	N	0/3
10.	Gail (India) Ltd, New Delhi	Shri Shashi Ranjan Shri G.V. Gokula Kannan (Alt)	N	Y	Y	2/3
11.	Great Eastern Energy Corporation Limited	Shri Anoop Gupta Shri Priyaranjan Patra (Alt)	N	N	N	0/3
12.	Indian Institute of Technology Delhi, New Delhi	Nomination Awaited	NA	NA	NA	NA
13.	Indian LPG Cylinders Mfrs Association, Chennai	Shri Manvinder Singh Shri M.L. Fatehpuria (Alt)	Y	Y	Y	3/3
14.	Indian Oil Corporation Ltd, New Delhi	Shri S.N. Jha Shri H.L. Arya (Alt)	N	N	N	0/3
15.	Indian Pump Manufacturers' Association, Ahmedabad	Shri Bharat Patel Shri Utkarsh A Chhaya (Alt) Shri Yogesh Mistri (Alt)	Y	N	Y	2/3
16.	Indraprastha Gas Ltd. (IGL), New Delhi	Shri P.K. Pandey Shri Ujjwal Bhandari (Alt)	N	Y	N	1/3
17.	MECON Limited, Ranchi	Shri Rajeev Khillan Shri Devashish Verma (Alt)	Y	Y	Y	3/3

18.	Ministry of Defence (DGQA), New Delhi	Lt Col Deepak Sharma Lt Col Harminder Singh (Alt)	N	N	N	0/3
19.	Ministry of Defence, Dte of Standardization , New Delhi	Lt Col Praveen Deo Shri Vijay Shankar (Alt)	N	N	N	0/3
20.	Ministry of New and Renewable Energy, New Delhi	Shri S. Srivastava Shri Hiren C. Borah (Alt)	N	Y	Y	2/3
21.	National Bank for Agriculture and Rural Development, Mumbai	Dr K.R. Rao	N	N	N	0/3
22.	NABL, Gurugram	Shri N. Venkateswaran Shri Srikanth R (Alt) Shri Nitan Garg (Alt) Shri Nikhil Kumar (YP) Shri Prince Garg (YP)	NA	Y	Y	2/2
23.	NTPC Ltd, Noida	Shri Apurba Ghosh Shri G.K. Halder (Alt)	Y	Y	Y	3/3
24.	Oil Industry Safety Directorate, Noida	Shri Murari Mohan Prasad Shri N.K. Pandey (Alt)	N	Y	N	1/3
25.	Projects and Development India Ltd, Noida	Shri B. Mukherjee Shri Ajay K.S. Ruhel (Alt)	N	N	N	0/3
26.	Research Design & Standards Organization, Lucknow	Shri BPS Bhadoria Shri Abhishek K. Gautam (Alt)	N	N	N	0/3
27.	Survey of India, Dehradun	Shri R.K.Meena Shri Pankaj Mishra (Alt)	Y	Y	N	2/3
28.	Thermax Ltd, Pune	Shri Radhe Jha Shri Charles Philominraj (Alt)	Y	Y	Y	3/3
29.	Voluntary Organization in Interest of Consumer Education, New Delhi	Shri B.K. Mukhopadhyay Shri M A U Khan (Alt)	Y	N	N	1/3

## ANNEX 1B

(Item 2.2)

### CHAIRPERSONS OF SECTIONAL COMMITTEES (Ex-Officio Members of MEDC)

Technical Committee	Title Of Committee	Chairperson	Organization
MED 01	Boilers and Pressure Vessels	Shri Sandeep Sadanand Kumbhar	Department for Promotion of Industry and Internal Trade, New Delhi
MED 03	Refrigeration and Air Conditioning	Prof (Dr.) Ravi Kumar	Indian Institute of Technology Roorkee, Roorkee
MED 04	Renewable Energy Sources	Dr A. K. Tripathi	(Ministry of New and Renewable Energy) MNRE,

			New Delhi
MED 06	Continuous Bulk Conveying, Elevating, Hoisting Aerial Ropeways and Related Equipment	Shri R. K. Sharma	RITES Ltd. Gurgaon
MED 07	Earth Moving Equipment and Material Handling Sectional committee	Gp. Capt. Chakrapani Mandela	BEML Limited
MED 08	Mining Techniques and Equipment	Shri Saifullah Ansari	Dte Gen of Mines Safety, Dhanbad
MED 10	Wire Ropes And Wire Products	Shri D.B. Naik	Dte Gen of Mines Safety, Dhanbad
MED 14	Cranes, Lifting Chains and Related Equipment	Shri T. Hemant Kumar	BEML Limited, Kolar Goldfield
MED 16	Gas Cylinders	Shri P. Kumar	Petroleum and Explosives Safety Organization, Nagpur
MED 17	Chemical Engineering Plants And Related Equipment	Dr. Mritunjay Kumar Shukla	CSIR - Indian Institute of Petroleum, Dehradun
MED 18	Construction Plant and Machinery	Brig Rajneesh Bhatnagar	CQAE, Ministry of Defence, Pune
MED 20	Pumps	Shri A.K. Nijhawan	Thyssenkrupp Industrial Solutions (India) Pvt Ltd, Mumbai
MED 21	Diamond Core and Waterwell Drilling	Shri Ajay Aggarwal	Geological Survey Of India, Kolkata
MED 22	Turbo Machinery	Shri K. Ravi	Bharat Petroleum Corporation Ltd, Mumbai
MED 23	Domestic and Commercial Gas Burning Appliances (Pressure Type)	Shri T D Sabu	LPG Equipment Research Centre, Bangalore
MED 24	Security Equipment	Shri Pushkar Ekka	Reserve Bank of India, Mumbai
MED 25	Printing Machinery	Dr. Dattatraya Kute	Savitribai Phule University, Ganeshkhind, Pune
MED 26	Oil Burning Appliances	Dr. G.D. Thakre	CSIR-IIP, Dehradun
MED 27	Handpumps	Shri G. Shanmuganathan	In Personal Capacity
MED 28	Mechanical Vibration and Shock	Shri Manish Agrawal	Bharat Heavy Electricals Ltd, Hyderabad
MED 29	Sewing Machines	Shri Vinay Kumar Srivastava	Research & Development Centre For Bicycle and Sewing Machines, Ludhiana
MED 30	Gaskets and Packing	Shri Udayan Chakravarty	EIL, New Delhi

MED 32	Photographic Equipments	Ms Ranjana Mehrotra	In personal Capacity
MED 33	Utensils, Cutlery and Domestic Hardware	Shri G. Shanmuganathan	In Personal Capacity, Chennai
MED 37	Methods and Equipments for Underground Coal Gasification and Coal Bed Methane	Shri Uday Paswan	Oil and Natural Gas Corporation, Ahmedabad
MED 38	Mechanical Equipment used in Refueling Stations For Petroleum and Gaseous Fuel	Shri P. Kumar	Petroleum and Explosives Safety Organization, Nagpur
MED 39	Energy Management and Energy Savings	Shri S.R Lohokare	In Personal Capacity
MED 40	Safety of Machinery	Shri Vikas Dogra	Ministry of Heavy Industries and Public Enterprises, Department of Heavy Industry, New Delhi

**ANNEX 2**  
(Item 3.2)

**COMPOSITION OF THE SECTIONAL COMMITTEES**

**COMPOSITION OF BOILERS AND PRESSURE VESSELS SECTIONAL COMMITTEE, MED 01**

Meeting No.	Date	Place
26 <sup>th</sup>	28-11-2023	Virtual
27 <sup>th</sup>	29-05-2024	Hybrid
28 <sup>th</sup>	06-09-2024	Physical

Sl No.	Organization Represented	Member Details	26 <sup>th</sup>	27 <sup>th</sup>	28 <sup>th</sup>	Total
1.	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	Shri Sandeep Sadanand Kumbhar ( <i>Chairperson</i> )	NA	Y	Y	2/2
2.	Bharat Heavy Electrical Limited, New Delhi	Shri A Narayan Teja Shri N. Manoj Kumar(Alt)	N	Y	N	1/3
3.	Bharat Heavy Electricals Limited, Haridwar	Shri Rahul Kumar Chandra (Alt)	Y	Y	N	2/3
4.	Bharat Heavy Electricals Limited, Tiruchirappalli	Shri Enaganti murthunjoy	Y	N	N	1/3

		Shri Rudrabhatla Sai Kumar (Alt)				
5.	Bharat Petroleum Corporation Limited, Mumbai	Shri K. Rajashekar Shri Sathyan V. (Alt)	Y	Y	Y	3/3
6.	Bureau Veritas India Private Limited, Noida	Shri Ranjit D. Naik Shri T. R. Subramanian (Alt)	Y	N	Y	2/3
7.	Bureau of Energy Efficiency, New Delhi	Ms Pravatanalini Samal Shri Priyaranjan (Alt) Shri Kamran Shaikh (Alt)	Y	N	Y	2/3
8.	CSIR - Central Mechanical Engineering Research Institute, Durgapur	Dr Atanu Saha Shri Kamal Kishor J. Uke (Alt)	Y	Y	Y	3/3
9.	Central Electricity Authority, New Delhi	Shri Prabhjot Singh Sahi Shri Jugal Kishor (Alt)	N	N	N	0/3
10.	DNV Business Assurance India Pvt. Ltd., Mumbai	Shri Shankar Shivaratri Shri Pramod Chabbi (Alt)	Y	Y	N	2/3
11.	Directorate General Factory Advice Service and Labour Institutes, Mumbai	Shri Ramesh Singh Rawat Shri Amit Gola (Alt)	Y	Y	Y	3/3
12.	Engineers India Limited, New Delhi	Mr. Shri Tarun Kumar Shri PVS Satyanarayana (Alt)	Y	Y	Y	3/3
13.	GE Power India Limited (Alstom Project India Limited), Noida	Shri M. Anandhan Shri Veermani S (Alt) Shri Aajay Joshua (Alt)	N	Y	N	1/3
14.	Godrej & Boyce Manufacturing Company Limited, Mumbai	Shri Ibrahim Mulla Shri Jayvant G. Pingale (Alt)	N	Y	Y	2/3
15.	India Sugar and General Engineering Corporation, Noida	Shri J. Rajavel Shri ESG Pragasam (Alt)	Y	Y	Y	3/3
16.	Indian Boilers Manufacturers Association, Mumbai	Shri Lokesh Manohar Chaudhary	Y	N	N	1/3
17.	Indian Institute of Technology Delhi, New Delhi	Prof. Naresh V. Datla Prof. K. Rama Krishna (Alt)	N	N	N	0/3
18.	Indian Oil Corporation Limited, Mumbai	Shri YVNMR Trinadh	Y	N	N	1/3
19.	Indian Register of Shipping, Mumbai	Shri Rahul T. Bhat Shri Siddhesh Prabhu (Alt)	Y	Y	Y	3/3
20.	Indira Gandhi Centre for Atomic Research, Kalpakkam	Dr B. K. Sreedhar Shri V. Vinod (Alt)	N	Y	N	1/3
21.	Industrial Boilers Limited, Nehru Place, New Delhi	Shri Cyrus R. Engineer Shri R. R. Engineer (Alt)	Y	Y	Y	3/3
22.	L&T-Sargent & Lundy Limited, Vadodara	Shri Yogendra D Mishra Shri Karthik T. (Alt)	Y	Y	Y	3/3



		Shri Sanket Chaudhari (YP)				
23.	Larsen and Toubro Limited, Mumbai	Shri Girish Y. Savant Shri M. Venkatesh (Alt)	N	N	N	0/3
24.	Lloyd Register Asia, Mumbai	Shri Thirumal Valavan Shri Gurvinder Singh Saini (YP)	Y	Y	N	2/3
25.	Malaviya National Institute of Technology, Jaipur	Dr. Tapas Bajpai Dr. Pankaj Kumar Gupta	NA	NA	NA	0/0
26.	NTPC Limited, New Delhi	Shri Anubhav Dahiya Shri Vivek Gangwar (Alt)	Y	Y	Y	3/3
27.	Oil Industry Safety Directorate, Noida	Shri Naba Kumar Baishya Shri Shivendra Singh Parihar (Alt)	Y	Y	Y	3/3
28.	Petroleum and Explosives Safety Organisation, Nagpur	Shri Basudev Basak Shri Prashant Yadav (Alt)	N	N	N	0/3
29.	Projects and Development India Limited, Noida	SH Y. K. Gautam Shri. Rajeev Ranjan Kumar (Alt)	Y	Y	Y	3/3
30.	Reliance India Limited, Mumbai	Shri Sanjiv Prasad	Y	Y	N	2/3
31.	Tata Consulting Engineers Limited, Navi Mumbai	Shri Lakshmana Rao V Shri R Raghavanem (Alt)	Y	Y	Y	3/3
32.	Tata Steel Limited, Kolkata	Shri Braj B. Prasad Shri Pradip Chakraborty (Alt)	Y	Y	Y	3/3
33.	Tema India Limited, Mumbai	Shri Parikshit Padture	N	N	N	0/3
34.	Thermax Limited, Pune	Shri Ajay Hantodkar Shri Sachin Shivaji Mulik (Alt) Shri Kishor Pandurang Dongare (YP) Shri Nirav Shah (YP)	Y	N	N	1/3
35.	Welding Research Institute, Tiruchirappalli	Dr. B. Shanmugarajan Shri K. Ganesh Kumar (Alt)	Y	Y	N	2/3

**COMPOSITION OF REFRIGERATION AND AIR CONDITIONING SECTIONAL  
COMMITTEE, MED 03**

Meeting	Date	Place
41 <sup>st</sup>	24-06-2024	Virtual
42 <sup>nd</sup>	26-09-2024	BIS HQ, New Delhi
43 <sup>rd</sup>	02-12-2024	Virtual

Sl No	Organization Represented	Principal Member/ Alternate Member	41 <sup>st</sup>	42 <sup>nd</sup>	43 <sup>rd</sup>	Total
1.	Indian Institute of Technology, Roorkee	Prof (Dr) Ravi Kumar ( <i>Chairperson</i> )	Y	Y	Y	3/3

2.	BSH Household Appliances Manufacturing Pvt Ltd., Chennai	Shri Loganathan Vijay Kumar Shri A. Balasubramanian (Alt)	Y	Y	N	2/3
3.	Blue Star Limited, Mumbai	Shri Jitendra Bhambure Shri Sunil Kumar Jain (Alt) Ms. Sneha Harsora (YP)	Y	Y	Y	3/3
4.	Bureau of Energy Efficiency, New Delhi	Ms P. Samal Shri Kamran Shaikh (Alt) Ms D. Wadhwa (Alt) Shri Dheeraj Pandey	Y	Y	Y	3/3
5.	CEPT University	Dr Yash Shukla	Y	Y	Y	3/3
6.	Carrier Air Conditioning and Refrigeration Limited, Gurugram	Shri Bimal Tandon Shri Manmohan Kulashri (Alt) Shri Jatinder Sharma (Alt) Shri Munish Kumar Sharma	Y	Y	Y	3/3
7.	Central Power Research Institute, Bengaluru	Dr P. Chandra Sekhar Shri Gujjala B.Balaraja (Alt)	N	N	N	0/3
8.	Central Public Works Department, New Delhi	Shri Ram Raj Meena Shri Ramayan Prasad Gupta (Alt)	Y	N	N	2/3
9.	Copeland India Private Limited, Pune	Shri S. Chethan Tholpady	Y	Y	Y	3/3
10.	Daikin Air Conditioning India Private Limited, Gurugram	Shri Gaurav Mehtani Shri Yogesh Kumar (Alt)	Y	Y	Y	3/3
11.	Danfoss Industries Pvt Ltd, Gurugram	Shri Madhur Sehgal Shri K.L. Nagahari (Alt) Shri M.N.S.V Kiran Kumar (Alt)	Y	N	N	1/3
12.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Lt. Col. Deepak Sharma Shri S.S. Nikam (Alt)	Y	N	N	1/3
13.	Electrical Research and Development Association, Vadodara	Shri Guatam Brahmabhatt Shri Rakesh Patel (Alt)	Y	Y	Y	3/3
14.	Frigoglass India Private Limited, Gurugram	Shri Mahesh Kumar Mawai Shri Mandeep Singh (Alt) Ms. Ritu Chouhan (Alt)	Y	N	Y	2/3
15.	Godrej & Boyce Mfg. Co. Ltd (Appliance Division)	Shri Burzin J. Wadia Shri Jasvir Singh (Alt) Shri Narendra Shedge (Alt)	Y	Y	Y	3/3
16.	Honeywell International India Pvt Ltd	Shri Aaditya Pegallapati Shri Avinash Kumar (Alt)	Y	Y	N	2/3
17.	Indian Institute of Chemical Engineering, Kolkata	Dr D Sathiyamoorthy Prof Sudip K Das (Alt)	Y	N	N	1/3
18.	Indian Institute of Technology Madras	Dr. G. Venkatarathnam	Y	N	Y	2/3
19.	Indian Society of Heating, Refrigerating And Air Conditioning Engineers (ISHRAE)	Dr Jyotirmay Mathur Shri Ashish Rakheja (Alt) Shri V. Manjunath (Alt)	N	Y	Y	2/3
20.	International Copper Association India, Mumbai	Shri Mayur Karmakar Shri Shankar Sapaliga (Alt)	Y	Y	Y	3/3
21.	Intertek India Pvt Ltd, New Delhi	Shri C.M. Pathak	Y	Y	Y	3/3
22.	Johnson Controls- Hitachi, Ahmedabad	Shri Rahul Ramtekkar Ms. Heena Ramsinghani (YP)	Y	Y	Y	3/3
23.	LG Electronics India Pvt Ltd, New Delhi	Shri Aditya Anil	Y	N	Y	1/3

24	Malaviya National Institute of Technology, Jaipur	Dr. Jyotirmay Mathur	NA	NA	Y	1/1
25	Ministry of Environment Forest and Climate Change, New Delhi	Shri Aditya Narayan Singh Dr Mahendra Phulwaria(Alt)	Y	N	N	1/3
26	Refrigeration & Air-conditioning Manufacturers Association, New Delhi	Shri Kanwaljeet Jawa Shri Harsh Vardhan Pant (Alt)	Y	Y	Y	3/3
27	Samsung India Electronics Ltd, Noida	Shri Kalicharan Sahu Shri Amit Kumar Jha (Alt)	Y	Y	Y	3/3
28	Sierra Aircon Pvt Ltd	Shri D.K. Mudgal Shri S. Dhiman (Alt) Shri Vikas Kumar Sharma (Alt)	Y	Y	N	2/3
29	The Chemours India Pvt Ltd., Gurgaon	Shri Vikas Mehta Shri Nishit Shah (Alt) Shri Tushar Aggarwal (Alt)	Y	Y	N	2/3
30	Trane Technologies India Private Limited, Bengaluru	Shri M. Venkanna Shri J. Gurusamy (Alt) Ms Shweta Kulkarni (Alt) Shri Vivek Kumar (Alt)	Y	Y	Y	3/3
31	UL India Pvt Ltd, Bengaluru	Shri V. Manjunath Shri Satish Kumar (Alt)	Y	Y	Y	3/3
32	Voltas Ltd, Mumbai	Shri Srinivasu Moturi Shri A. D. Kumbhar (Alt)	Y	Y	Y	3/3
33	Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi	Shri H. S. Wadhwa Shri B.K. Mukhopadhyay (Alt)	Y	Y	Y	3/3
34	In Personal Capacity	Shri J. K. Agrawal	Y	N	N	1/3
35	In Personal Capacity	Shri P.K. Mukherjee	Y	Y	Y	3/3

**COMPOSITION OF RENEWABLE ENERGY SOURCES SECTIONAL COMMITTEE, MED 04**

Meeting	Date	Place
28th	25-09-2024	Virtual
27th	26-06-2024	Virtual
26th	08-11-2023	Virtual

Sl No.	Organization Represented	Principal Member/ Alternate Member	26th	27th	28th	Total
15.	Ministry of New and Renewable Energy, New Delhi	Dr A. K. Tripathi ( <i>Chairperson</i> )	Y	Y	Y	3/3
16.	Bharat Heavy Electricals, Hyderabad	Shri Amrish Gupta Shri Saumen Kumar Bhaumik (Alt-1) Shri Subhashish Gupta (Alt-2)	Y	Y	Y	2/3
17.	Biogas Forum India, New Delhi	Dr A. R. Shukla	Y	Y	Y	3/3

18.	CSIR-Central Mechanical Engineering Research Institute (CMERI), Durgapur	Dr Chanchal Loha Shri Subho Samanta (Alt)	N	Y	Y	2/3
19.	CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur	Dr Ankit Gupta Ms Poonam Prasad (Alt)	Y	Y	Y	3/3
20.	Cement Manufacturers Association, New Delhi	Shri Raju Goyal Shri Manmohan Rathi (Alt-1) Shri Shubho Chakravarty (Alt-2)	Y	Y	N	3/3
21.	Central Arid Zone Research Institute (CAZRI), Jodhpur	Dr H. L. Kushwaha Dr Surendra Poonia (Alt)	Y	N	Y	1/3
22.	CSIR - Central Leather Research Institute (CLRI), Chennai	Dr P. Shanmugam	N	Y	Y	2/3
23.	Central Public Works Department, New Delhi	Shri Vimal Kumar Shri Rajiv Gupta (Alt)	Y	N	N	1/3
24.	Consumer Coordination Council (CCC), Noida	Shri P. Ramarao Ms Neetu Chauhan (Alt)	N	N	N	0/3
25.	Emmvee Photovoltaic Power Private Limited, Bengaluru	Shri Vijay Kumar C. R. Shri Manju Nath Ullur H. (Alt)	Y	N	N	2/3
26.	India Meteorological Department (IMD), New Delhi	Shri Harmeet S. Sawhney Dr Anikender Kumar (Alt)	N	N	Y	1/3
27.	Indian Institute of Technology (BHU), Mechanical Engineering Department, Varanasi	Shri Shailendra Kumar Shukla	Y	Y	Y	2/3
28.	Indian Institute of Technology Bombay, Mumbai	Prof Anish Modi (Alt) Shri Santanu Bandyopadhyay	Y	Y	Y	2/3
29.	Indian Renewable Energy Development Agency Ltd, New Delhi	Shri Pradipta Kumar Roy Shri Puran Mal Meena (Alt)	Y	Y	N	3/3
30.	International Copper Association India (ICAI), Mumbai	Shri Jyotish Pande	Y	Y	Y	2/3
31.	Maharashtra Energy Development Agency, Pune	Shri Manoj A. Pise Shri Hemant Manik Kulkarni (Alt-1) Shri Anand V. Kulkarni (Alt-2) Shri Sameer Ghodake (Alt-3)	N	Y	N	2/3
32.	Ministry of New and Renewable Energy, New Delhi	Dr S. R. Meena Dr Avinash K. Singhal (Alt-1) Shri Vikram Dhaka (Alt-2) Shri Hireen C. Borah (Alt-3) Shri Rajkumar Bhawariya (Representative)	Y	Y	N	3/3
33.	Ministry of Ports, Shipping and Waterways, New Delhi	Shri Anil Pruthi Shri Ramji Singh (Representative)	Y	Y	N	3/3
34.	National Institute of Solar Energy, Gurugram	Shri Kishore K. Menon Dr Chandan Banerjee (Alt) Shri Vikrant Yadav (Representative)	Y	Y	N	3/3

		Dr Avadhesh Yadav (Representative)				
35.	Rajagiri School of Engineering Technology (RSET), Kochi	Dr Varghese Panthaloookan Shri Joel George (Alt)	Y	Y	Y	3/3
36.	Regional Test Centre, Pune	Prof (Dr) Sandesh R. Jadkar Dr Anagha M. Pathak (Alt-1) Dr Adinath M. Funde (Alt-2)	Y	Y	N	3/3
37.	Sardar Patel Renewable Energy Research Institute, Vallabh, Vidyanagar	Er Asim Kumar Joshi Dr Shaishav Sharma (Alt)	N	N	Y	1/3
38.	Solar Thermal Federation of India, Pune	Shri Jaideep N. Malaviya	Y	Y	Y	2/3
39.	The Energy and Resources Institute, New Delhi	Shri N. K. Ram	Y	Y	N	2/3
40.	In Personal Capacity, New Delhi	Shri Atam Kumar	N	N	N	0/3

**CONTINUOUS BULK CONVEYING, ELEVATING, HOISTING, AERIAL ROPEWAYS AND RELATED EQUIPMENT SECTIONAL COMMITTEE, MED 06**

Meeting No	Date	Place
27 <sup>th</sup>	19-03-2024	Virtual
28 <sup>th</sup>	31-05-2024	Hybrid Meeting(Manak Bhawan, New Delhi, Delhi, India)
29 <sup>th</sup>	19-09-2024	Hybrid Meeting(Manak Bhawan, New Delhi, Delhi, India)

SI No.	Organisation Represented	Principal Member/ Alternate Member	27 <sup>th</sup>	28 <sup>th</sup>	29 <sup>th</sup>	Total
1.	Rites Limited, Gurugram	Shri R. K. Sharma	Y	Y	Y	3/3
2.	Adventure Tour Operator Association, New Delhi	Shri Ajeet Bajaj Shri Pradeep Murthy (Alt 1) Shri Nirat Bhatt (Alt 2)	Y	Y	Y	3/3
3.	Bharat Heavy Electricals Limited, Project Engineering Management, Noida	Shri Pankaj Kapsimay Shri Vivek Hemrom (Alt)	Y	N	Y	2/3
4.	CSIR - Central Institute of Mining and Fuel Research (CIMFR), Dhanbad	Shri Debasis Basak Shri Girendra M Prasad (Alt)	N	N	N	0/3
5.	Conveyor Ropeway Services Pvt. Ltd, Kolkata	Shri S. Shekhar Chakravarty Shri Kamal Kumar Bose (Alt)	Y	Y	Y	3/3
6.	Damodar Ropeways & Infra Limited, Kolkata	Shri D. L. Das	Y	Y	Y	3/3

7.	Directorate General Factory Advice Service and Labour Institutes, Mumbai	Shri Dev Kumar Saxena Shri Karunesh Srivastava (Alt)	Y	Y	Y	3/3
8.	Directorate General of Mines Safety, Dhanbad	Shri D B Nayak Shri Vijay Yadaora Barapatre (Alt)	N	N	Y	1/3
9.	Elecon Engineering Company Limited, Gujarat	Shri Naineshkumar Anilkumar Patel Shri Taxay G. Solanki(Alt 1) Shri Sanket A. Patel(Alt 2)	—	Y	N	1/2
10.	Indian Association of Amusement Parks and Industries, Mumbai	Shri Pradeep Sharma Shri Anil Padwal (Alt)	Y	N	N	1/3
11.	J S Mohar Construction Company Private Limited, Bardhaman	Shri Sandip Singh	—	Y	N	1/2
12.	Lepton Projects Private Limited, Ghaziabad	Shri Sanjay Kumar Shri Piyush Rathi (Alt)	Y	N	Y	2/3
13.	Mecon Limited, Ranchi	Shri Satya Praksh Shri Manoj Kumar Mahto (Alt)	N	N	N	0/3
14.	Ministry of Ports, Shipping and Waterways, New Delhi	Shri Anil Pruthi Shri Ramji Singh (Alt)	Y	Y	Y	3/3
15.	National Thermal Power Corporation Ltd., New Delhi	Shri Manish Kumar	Y	Y	Y	3/3
16.	National Highways Logistics Management Limited, New Delhi	Shri Sunil Yadav	—	Y	N	1/2
17.	National Institute Of Technology, Kurukshetra	Shri Manoj Kumar Gupta Shri Vikas Kumar(Alt)	—	Y	Y	2/2
18.	Ropeway And Resorts Pvt Ltd, Kolkata	Shri Biplab Das Shri Sudipta Krishana Mandal (Alt)	Y	N	Y	2/3
19.	Tata Consulting Engineers Limited, Navi Mumbai	Shri Shireesh S. Swami	N	Y	Y	2/3
20.	Usha Breco Limited Ghaziabad	Shri Manoj Panwar Shri Sanjeev Dhariwal (Alt)	N	Y	N	1/3
21.	Usha Martin Limited, Ranchi, Jharkhand	Shri Tushar Mukherjee Shri Sandeep Jaiswal (Alt)	Y	Y	Y	3/3
22.	In Individual Capacity, New Delhi	Shri S C Gandhi	N	Y	N	1/3
23.	In Individual Capacity, Faridabad	Shri Ashutosh Bhadra	N	Y	Y	2/3
24.	In Individual Capacity, Kolkata	Shri Ranjan Mukherjee	Y	Y	Y	3/3

**EARTH MOVING EQUIPMENT AND MATERIAL HANDLING SECTIONAL  
COMMITTEE, MED 07**

Meeting Number	Date	Place
32 <sup>nd</sup>	26-09-2023	Virtual
33 <sup>rd</sup>	27-06-2023	Virtual
34 <sup>th</sup>	25-06-2024	Virtual

SI No.	Organization Representative	Principle/Alternate	32 <sup>nd</sup>	33 <sup>th</sup>	34 <sup>th</sup>	Total
1.	BEML Limited, Bengaluru	Shri Chakrapani Mandela (Chairman) Shri Hemant Kumar (Alt)	Y	Y	N	2/3
2.	Automotive Research Association of India, Pune	Shri A. Akbar Badusha	Y	Y	N	2/3
3.	Bharat Cooking Coal Ltd, Dhanbad	Shri Arun Nand Sahay Shri Chandra Shekhar S. I. (Alt)	Y	Y	Y	3/3
4.	Bharat Heavy Electricals Ltd, Noida	Shri G. Bhagchandani Shri S. K. Bhaumik (Alt)	N	Y	N	1/3
5.	Caterpillar India Pvt Ltd, Tiruvallur, Chennai	Shri K. Reji Jose Shri V Bhaskaran (Alt) Ms. CHRISTINA EBENEZER (Alt II)	Y	Y	Y	3/3
6.	Central Mine Planning and Design Institute Ltd, Ranchi, Jharkhand	Shri Sudarshan Prasad Shree P. Sandeep Naidu (Alt I) Shri Ashish Agarwal (Alt II)	N	Y	N	1/3
7.	Directorate General Factory Advice Service and Labour Institute, Mumbai	Shri Sumit Roy	Y	Y	N	2/3
8.	Directorate General of Mines Safety, Dhanbad	Shri D. B. Naik Shri Vijay Yadaorao Barapatre (Alt)	Y	Y	Y	3/3
9.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Lt Col Sidharth Khattri Shri Raghubir Singh (Alt)	N	Y	Y	2/3
10.	Epiroc Mining India Ltd, Nashik, Maharashtra	Shri Prakash Gore	Y	N	N	1/3
11.	Heavy Engineering Corporation Limited, Ranchi, Jharkhand	Shri Aravind Doss Shri Vijay Kumar (Alt) Shri Amit Pal (Alt)	Y	Y	Y	3/3
12.	Indian Construction Equipment Manufacturers' Association, New Delhi	Shri K.V. Krishnamurthy Dr Naveen Upreti (Alt)	Y	Y	Y	3/3
13.	In Personal Capacity (Engineering)	Shri G.N. Venkatesh	Y	N	N	1/3
14.	Indian Institute of Technology (ISM), Dhanbad	Prof. L. A. Kumaraswamidhas	N	Y	Y	2/3
15.	JCB India, New Delhi	Shri Saurabh Dalela Shri Vivek Rawat (Alt)	Y	Y	Y	3/3
16.	John Deere India Pvt Ltd, Mumbai, Maharashtra	Shri Karthik Kaliappan Shri Raj Anand (Alt)	Y	Y	Y	3/3
17.	Komatsu India Private Limited, Bengaluru	Shri Jayakumar C. Shri Vikrant Sharma (Alt I) Shri Naresh. T (Alt II)	Y	Y	Y	3/3
18.	Manitou India Limited, Greater Noida, Uttar Pradesh	Shri Atul K. Singhal	Y	Y	N	2/3

19.	Ministry of Heavy Industries and Public Enterprises Department of Heavy Industry, New Delhi	Shri Sushil Lakra	N	N	N	0/3
20.	Ministry of Ports, Shipping and Waterways, New Delhi	Shri Anil Pruthi Shri Ramji Singh (Alt)	Y	Y	Y	3/3
21.	Mumbai Port Trust, Mumbai, Maharashtra	Shri Shri Anjan Kumar Mait Shri Rajeev Kumar Yadav (Alt) Shri Satish Kharche (Alt II)	N	Y	Y	2/3
22.	National Council For Cement and Bldg. Material, Faridabad, Haryana	Shri Kapil Kukreja Shri Saurabh Bhatnagar (Alt)	Y	Y	Y	3/3
23.	National Mineral Development Corporation Ltd, Hyderabad	Shri S. J. Rao Shri S.K. Roy (Alt)	Y	Y	N	2/3
24.	Office of the Development Commissioner (MSME), New Delhi	Shri Susanta Kumar Som Shri Suvankar Santra	Y	N	Y	2/3
25.	Schwing Stetter (India) Private Limited, New Delhi	Shri Rajeev Shalia Shri Varadharajan R.	-	-	N	0/1
26.	Volvo Construction Equipment, Bengaluru	Shri V. R. Sai Prasad Polipalli Shri K. Raghuraman (Alt)	Y	N	N	1/3

**COMPOSITION OF MINING TECHNIQUES AND EQUIPMENT SECTIONAL COMMITTEE, MED 08**

No. of Meeting	Date	Place
25 <sup>th</sup>	07-06-2023	Virtual
26 <sup>th</sup>	09-11-2023	Virtual
27 <sup>th</sup>	02-08-2024	Virtual

Sl No.	Organization Representative	Principle/Alternate	25 <sup>th</sup>	26 <sup>th</sup>	27 <sup>th</sup>	Total
1.	Directorate General of Mines Safety , Dhanbad	Shri Saifullah Ansari (Chairman)	Y	Y	Y	3/3
2.	Automotive Research Association of India, Pune	Shri Milind Kandalkar Shri Dhondiram Mole (Alt)	NA	Y	Y	2/2
3.	BEML Limited, Bengaluru	Shri V. R. S. Prasad Rao Shri H. G. Suresh	Y	Y	Y	3/3
4.	CSIR - Central Institute for Mining and Fuel Research, Dhanbad	Dr Manoj Kumar Singh Shri Surajit Dey (Alt-1) Shri S.K. Kashyap (Alt-2)	Y	Y	Y	3/3
5.	Directorate General Of Mines Safety, Dhanbad	Shri M Arumugam (Alt)	Y	N	Y	2/3
6.	Eastern Coalfields Limited , Disergarh	Shri Sarvesh Kumar Shri Ajay Bhowmik (Alt)	Y	Y	Y	3/3



7.	Eimco Elecon (India) Ltd, Vallabh Vidyanagar	Shri Ram Ramesh Kale Shri Vinay Jaynarayan Sharma (Alt)	N	Y	Y	2/3
8.	Hutti Gold Mines Company Limited, Bengaluru	Dr. Prabhakar Sangoormath Shri Mallikarjun Sarapur (Alt)	NA	NA	Y	1/1
9.	Indian Institute Of Technology (ISM), Dhanbad	Shri L. A. Kumaraswamidhas	Y	Y	Y	3/3
10.	Manganese Ore (India) Ltd ,Nagpur	Shri Rakesh Ku. Verma Shri Atul Sharma (Alt-1) Shri Ashwini Baghele (Alt-2)	N	N	N	0/3
11.	Metso Outotec India Private Limited, Vadodara	Shri Sandeep Deokisan Bhattad	N	Y	Y	2/3
12.	Nanda Millar Co , Kolkata	Shri J.P. Goenka Sh Madhur Goenka (Alt)	Y	Y	Y	3/3
13.	Tata Steel Ltd	Shri Soumendhu Manjhi Shri Abinash Jha (Alt)	Y	N	N	1/3

**COMPOSITION OF WIRE ROPES AND WIRE PRODUCTS SECTIONAL COMMITTEE, MED 10**

Meeting No.	Date	Place
28 <sup>th</sup>	12-02-2024	Virtual
29 <sup>th</sup>	14-05-2024	Hybrid
30 <sup>th</sup>	13-09-2024	Hybrid

Sl. No.	Organisation	Principal/Alternate Member	28 <sup>th</sup>	29 <sup>th</sup>	30 <sup>th</sup>	Total
1.	Directorate General Of Mines Safety, Dhanbad	Shri D B Naik (Chairperson)	Y	Y	Y	3/3
2.	Bharat Wire Ropes Ltd., Mumbai	Shri Mahender Singh Arora Shri Mayank Mittal (Alt)	Y	Y	N	2/3
3.	Bharat Heavy Electrical Limited, New Delhi	Shri Bhaskarjit Baruah Shri Raman Bharihoke (Alt) Shri Devendra Singh Rathore (Yp)	Y	Y	Y	3/3
4.	Central Institute Of Mining And Fuel Research , Dhanbad	Dr. B. Ahirwal Dr. Mousumi Mallick (Alt)	Y	Y	Y	3/3
5.	Dte Gen Fac Advice Service & Lab Instt , Mumbai	Shri Sanur Pandey Shri N Varadharajan (Alt)	Y	Y	N	2/3
6.	Directorate General Of Mines Safety, Dhanbad	Shri Vijay Yadaorao Barapatre	N	N	Y	1/3
7.	Maccaferri Environment Solutions Pvt. Ltd., Gurugram	Shri Rudra Budhbhatti Smt Minimol Korulla (Alt)	Y	Y	Y	3/3

8.	Ministry Of Ports, Shipping And Waterways, New Delhi	Shri Anil Purthi Shri Ramji Shing (Alt)	Y	Y	Y	3/3
9.	Nanda Miller Company, Kolkata	Shri J P Goenka	Y	Y	N	2/3
10.	National Test House, Kolkata	Shri Angad Verma Shri Suresh Parwal (Alt)	Y	Y	Y	3/3
11.	Oil And Natural Gas Commission, Dehradun	Shri Ritujit Hazarika Shri Rakesh Kumar Srivastava (Alt)	N	Y	Y	2/3
12.	Orient Wire Ropes Pvt. Ltd., Indore	Shri Shishir Akarte	Y	Y	Y	3/3
13.	Otis Elevator Company (India) Limited, Bengaluru	Shri Shrihari Vispute Shri Praveena Siddaramanna (Yp)	NA	Y	Y	2/2
14.	Schindler India Private Limited, Mumbai	Shri Nitin Vithal Kadam Shri Ketan Kshirsagar (Alt)	NA	Y	Y	2/2
15.	Tk Elevator India Private Limited, Navi Mumbai	Shri Vishnu Parashar Shri Deepak Balani (Alt)	NA	Y	Y	2/2
16.	Usha Martin Ltd, Ranchi.	Shri Tushar Mukherjee Shri Sandeep Jaiswal (Alt)	Y	Y	Y	3/3
17.	Vedanta Limited	Shri Rakesh Singhvi	Y	N	N	1/3

**CRANES, LIFTING CHAINS AND RELATED EQUIPMENT SECTIONAL COMMITTEE, MED 14**

Meeting No.	Date	Place
23th	08-08-2023	Virtual
24th	22-11-2023	Virtual
25 <sup>th</sup>	27-06-2024	Virtual

Sl No.	Organisation Represented	Member Details	23 <sup>rd</sup>	24 <sup>th</sup>	25 <sup>th</sup>	Total
1.	BEML Limited, Bengaluru	Shri Hemant Kumar	N	N	N	0/3
2.	ABB India Limited, Bengaluru	Shri Gunde Vinod Kumar S. Shri Rakesh Ramalingam (Alt)	N	Y	N	1/3
4.	Anupam Industries Limited, Udyog Nagar	Shri Mokshesh Shah Shri Nishit Patel (Alt)	N	Y	Y	2/3
5.	Automotive Research Association of India (ARAI), Pune	Shri Pradeep Jawale Mr. Milind Kandalkar (Alt)	N	Y	Y	2/3
6.	Bharat Heavy Electrical Limited, New Delhi	Mr. Shri Heeralal Bharani Shri Shankar Dutt (Alt)	Y	N	N	1/3

7.	Bharat Heavy Electricals Limited, Tiruchirappalli	Shri K. Palanivel Shri M. Arthanari Eswar (Alt)	N	Y	Y	2/3
8.	Bharat Wire Ropes Limited, Mumbai	Shri Mahender Singh Arora Shri Mayank Mittal (Alt I) Ms. Shrimati Ashwini B. Lokhande (Alt II)	N	Y	Y	2/3
9.	CSIR - Central Building Research Institute, Roorkee	Shri Ravindra Singh Bisht Shri Kanti Lal Solanki (Alt)	Y	Y	Y	3/3
10.	Directorate General Factory Advice Service and Labour Institutes (DGFASLI), Mumbai	Samir Pandey Shri NB Reshamwar (Alt)	NA	NA	Y	1/1
11.	Directorate General of Quality Assurance, Ministry of Defence (DGQA), New Delhi	Shri Dhritesh Prakash Sana Shri R.V. Jain (Alt)	Y	Y	N	2/3
12.	EGS Computers India Private Limited, Chennai	Shri Natarajan R SHRI B. ASHOK (Alt)	Y	Y	Y	3/3
13.	Electromech Material Handling Systems, Pune	Shri Sanjay Bhise Shri Niranjan Mazire (Alt)	Y	N	Y	2/3
14.	Engineers India Limited, New Delhi	Shri Rajib Ranjan Shrivastava Shri A. Natarajan (Alt)	N	Y	Y	2/3
15.	Furnace and Foundry Equipment Company, Mumbai	Shri Shyam M. Gurnani Shri Sanjoy J. Masand (Alt)	N	Y	N	1/3
16.	Heavy Engineering Corporation Limited, Ranchi	Shri Ramjanam Prasad Shri R N Jha (Alt I) Shri Satish Kumar (Alt II) Shri T K Sahu (Alt III)	N	N	N	0/3
17.	Indian Chain Private Limited, Kolkata	Shri Pradip Chitlangia Shri Rohan Chitlangia (Alt)	Y	Y	Y	3/3
18.	Indian Space Research Organization, Bengaluru	Mr. Shri Shajahan	Y	Y	Y	3/3
19.	Jindal Steel and Power Limited, New Delhi	Shri Ravinder Sharma	Y	Y	Y	3/3
20.	KITO India Private Limited, Bengaluru	Shri Preet H. Heri Shri Anoop S. Bharadwaj (Alt)	Y	Y	Y	3/3

21.	Kone Cranes and Demag Private Limited, New Delhi	Shri Deepak Desai Shri Sandeep D. Bhattad (Alt)	N	Y	Y	2/3
22.	MECON Limited, Ranchi	Sh Bal Mukund Gandharva Shri Ankit Jalan (Alt)	Y	Y	Y	3/3
23.	MN Dastur and Company Private Limited, Kolkata	Shri Anshuman Bhandari Shri Sandeep Karmakar (Alt)	N	Y	Y	2/3
24.	Marathon Electric Motors (India) Limited, Kolkata	Shri Parasar Lahiri Shri Gautam Mondal (Alt)	Y	N	Y	2/3
25.	Mega Drivers Private Limited, Thane	Shri Saurabh Tripathi Shri Dipak Majumdar (Alt)	N	Y	Y	2/3
26.	Metso Outotec India Private Limited, Vadodara	Shri Sandeep Deokisan Bhattad	N	Y	N	1/3
27.	Ministry of Ports, Shipping and Waterways, New Delhi	Mr. Anil Pruthi Mr. Ramji Singh (Alt)	Y	Y	Y	3/3
30.	Mukand Limited, Thane	Shri .T Muralidhar. Shri Anand Mitkari (Alt)	Y	N	Y	2/3
32.	Schneider Electric India Private Limited, Gurugram	Shri Deepak Patel Shri Senthilkumaran (Alt I) Shri Anmol Chaudhari (Alt II)	N	Y	Y	2/3
33.	Siemens Limited, Mumbai	Shri Sourav Sadhukhan Shri Prashant Pawar (Alt)	N	Y	Y	2/3
34.	Steel Authority of India, Centre for Engineering and Technology (SAIL), Ranchi	Shri Rabi Shankar Prasad Shri Deepak Biswal (Alt)	Y	Y	Y	3/3
36.	TIL, Kolkata	Shri Biplab Ghosh	Y	N	N	1/3
	Tacklers Engineering Private Limited, Ahmedabad	Shri J. B. Bhatt Shri Nirag A. Chokshi (Alt)	N/A	N/A	Y	1/1
39.	Unique Industrial Handlers Private Limited, Mumbai	Shri G. L. Mirchandani Shri S. E. Badlawala (Alt I) Sh Rajendra V Pagar (Alt II)	N	Y	Y	2/3

### COMPOSITION OF GAS CYLINDER SECTIONAL COMMITTEE, MED 16

Meeting	Date	Venue
30 <sup>th</sup> Meeting	05-07-2023	Webex
31 <sup>st</sup> Meeting	07-11-2023	Webex

32 <sup>nd</sup> Meeting	25-07-2024 to 26-07-2024	Physical
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S.No	Organization Represented	Principal /Alternate	30 <sup>th</sup>	31 <sup>st</sup>	32 <sup>nd</sup>	Total
1.	Petroleum and Explosives Safety Organisation, Nagpur	Shri P. Kumar ( <i>Chairperson</i> )	Y	Y	Y	3/3
2.	All India Industrial Gases Manufacturers Association, New Delhi	Shri Saket Tiku Shri K. R Sahasranam ( <i>Alt</i> )	Y	Y	Y	3/3
3.	Ashok Leyland Limited, Chennai	Shri Ved Prakash Gautam Shri Faustino V ( <i>Alt</i> )	Y	Y	N	2/3
4.	Automotive Research Association of India, Pune	Dr S S Thipse Shri Sandeep Rairikar ( <i>Alt</i> )	N	Y	N	1/3
5.	Bharat Heavy Electricals Limited, Project Engineering Management, Noida	Shri Kshitij Taneja Shri Lokesh Kumar Goyal ( <i>Alt</i> )	N	N	N	0/3
6.	Bharat Petroleum Corporation Limited, Mumbai	Shri Senthil Kumar B Shri Aakash Agarwal ( <i>Alt</i> ) Shri Ramprit ( <i>Alt</i> )	Y	Y	Y	3/3
7.	Bhiwadi Cylinder Private Limited, New Delhi	Shri Manvinder Singh Shri Sunil K. Dey ( <i>Alt</i> )	Y	Y	N	2/3
8.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Colonel Sabir Hundekar	Y	Y	N	2/3
9.	Everest Kanto Cylinder Limited, Mumbai	Shri Ayush Pawar Shri A.S.V.S. Prasad ( <i>Alt</i> ) Shri Ravi Sharma ( <i>Alt</i> )	Y	Y	Y	3/3
10.	Gujarat Gas Company Limited, Ahmedabad	Shri Dharmesh Sailor Shri Ravi Ravipalli ( <i>Alt</i> )	N	N	N	0/3
11.	Hindustan Petroleum Corporation Limited, Mumbai	Shri Pitabas Sarangi Shri Dinesh Pangtey ( <i>Alt</i> ) Shri Reddy Dhanumjaya Rao ( <i>Alt</i> )	Y	Y	Y	3/3
12.	Ideal Engineers Hyderabad Private limited, Hyderabad	Shri Satish Kabra Shri Kunal Kabra ( <i>Alt</i> )	Y	N	N	1/3
13.	Indian Oil Corporation Limited, Mumbai	Shri Bidhan Chandra Jena Shri Chandrakant Ghatol ( <i>Alt</i> ) Shri K N Gowtham ( <i>Alt</i> )	Y	Y	Y	3/3
14.	Indraprastha Gas Limited, New Delhi	Shri Rakesh Kishan Agrawal Shri Bimal Karan ( <i>Alt</i> ) Shri Aviral Rajeev ( <i>Alt</i> )	N	Y	Y	2/3
15.	Inox India Limited, Vadodara	Shri Deepak V. Acharya Shri Nitin jansari ( <i>Alt</i> )	N	Y	N	1/3
16.	International Industrial Gases Limited, Howrah	Shri Devendra K. Garg Shri Nikhilesh K. Garg ( <i>Alt</i> )	N	N	N	0/3
17.	Jai Maruti Gas Cylinders Private Limited, Gwalior	Shri Manu K Nigam	Y	Y	Y	3/3
18.	Kosan Industries Limited, Surat	Shri Girishbhai K. Shri S. B. Bolmal ( <i>Alt</i> )	N	N	N	0/3

19.	L.P.G. Equipment Research Centre, Bengaluru	Shri T. D. Sabu Shri Santosh Kumar Gupta ( <i>Alt</i> )	N	Y	N	1/3
20.	Linde India Limited, Kolkata	Shri Ramana Vutukuru	N	Y	N	1/3
21.	Mahanagar Gas Limited, Mumbai	Shri S. Murali Shri Milind M. Ranade ( <i>Alt</i> ) Shri Sachin Gumaste ( <i>Alt</i> )	Y	Y	N	2/3
22.	Maruti Suzuki India Limited, Gurugram	Shri Gururaj Ravi Shri Arun Kumar ( <i>Alt</i> ) Shri Rajesh Kumar ( <i>Alt</i> )	P	Y	N	1/3
23.	Petroleum and Explosives Safety Organisation, Nagpur	Shri P. Seeniraj ( <i>Alt</i> ) Shri Seenivas Rao Keta ( <i>Alt</i> )	Y	Y	N	2/3
24.	Research and Development Establishment, Pune	Dr. Shankar Bhaumik Shri Tamhankar Ravindra ( <i>Alt</i> )	N	N	N	0/3
25.	Society of Indian Automobile Manufacturers (SIAM), Delhi	Shri K.K. Gandhi Shri Amit Kumar ( <i>Alt</i> )	N	N	N	0/3
26.	Steel Authority Of India Limited (SAIL), Research & Development Centre for Iron & Steel, Ranchi	Shri K.K.Singh Shri Santosh Kumar ( <i>Alt</i> )	N	Y	N	1/3
27.	Tata Motors Limited, Pune	Shri Gowrishankar P. S. Shri Shailendra Dewangan ( <i>Alt</i> )	Y	Y	Y	3/3
28.	Tekno Valves, Kolkata	Shri Y. K. Behani Shri Rohit Behani ( <i>Alt</i> )	Y	Y	Y	3/3
29.	Trans Valves (India) Private Limited, Hyderabad	Shri Gaurhav Jaiin Shri Pradeep Kumar Mathur ( <i>Alt</i> )	Y	N	N	1/3
30.	Vanaz Engineers Limited, Pune	Shri S.J. Vispute Shri A.S. Wagh ( <i>Alt</i> )	Y	Y	Y	3/3

**COMPOSITION OF CHEMICAL ENGINEERING PLANTS AND RELATED EQUIPMENT SECTIONAL COMMITTEE, MED 17**

Meeting	Date	Place
27th	23-11-2024	Virtual
26th	28-06-2024	IIP Dehradun (Hybrid)
25th	08-11-2023	Virtual

Sl No.	Organization Represented	Principal Member/Alternate Member	25 <sup>th</sup>	26 <sup>th</sup>	27 <sup>th</sup>	Total
	CSIR - Indian Institute of Petroleum, Dehradun	Shri Mritunjay Kumar Shukla ( <i>Chairman</i> )	Y	Y	Y	3/3
	Advance Valves Global, Noida	Shri Pranay S. Garg Shri Rajiv Gupta ( <i>Alt</i> )	NA	NA	NA	NA

	Auma India Pvt. Ltd., Bengaluru	Shri Yashwant M. Jannu	Y	N	N	1/3
	Bharat Heavy Electrical Limited, New Delhi	Shri Y. Srinivasa Rao Shri Abhishek Kumar Pandey (Alt) Shri Subhashish Gupta (Alt)	Y	Y	Y	3/3
	Bharat Petroleum Corporation Limited Corporate Research & Development Centre, Greater Noida	Ms Isha Khullar Shri Vinod Kumar (Alt)	NA	Y	N	1/2
	Blast Carboblocks Private Limited, Mumbai	Shri Dhawal Saxena	Y	Y	N	2/3
	Chemtrols Industries Pvt. Ltd., New Delhi	Shri P. Krishna Kumar	N	N	N	0/3
	Confederation of Indian Industry, New Delhi	Shri Nandakumar Kalath Shri Abilash Uttam (Alt)	Y	N	Y	2/3
	Directorate General Factory Advice Service & Labour Institutes, Mumbai	Shri Tanoj Chandan Shri Kunal Sharma (Alt)	Y	Y	Y	3/3
	Engineers India Ltd., Gurugram	Shri Hasmukh K. Parmar Shri Mragang Sheakhar (Alt)	Y	N	N	1/3
	Fab-Tech Works & Constructions Private Limited – Mumbai	Shri Aashish Jayprakash Shri Pradeep Gawate (Alt)	NA	Y	N	1/2
	GMM Pfaudler Limited, Anand	Shri Dhiran Panchal Shri Satvik Patel (Alt)	N	Y	Y	2/3
	Kejriwal Castings Ltd, Kolkata	Shri Sandip Kejriwal	N	Y	Y	2/3
	L&T Valves, Chennai	Shri Rohit Sharma Shri Suriyanarayanan (Alt)	N	N	N	0/3
	Lathia Rubber Manufacture Company Private Limited, Mumbai	Shri Sanjiv S. Lathia Shri Ashit ( <i>Alternate</i> )	NA	NA	NA	NA
	MECON Limited, Ranchi	Shri Yogendra Kumar Singh Shri Arvind Bhushan	Y	Y	N	2/3
	Nuclear Power Corporation of India Limited	Shri Chandrakant Kakade	NA	NA	Y	1/1
	Projects & Development India Ltd, Noida	Shri Sanjiv Kumar Mishra Shri Rajeev Ranjan Kumar (Alt)	N	N	Y	1/3
	Tata Consulting Engineers Limited, Navi Mumbai	Shri Shivnarayan Pareek Shri Shireesh S. Swami (Alt)	N	Y	N	1/3

**COMPOSITION OF CONSTRUCTION PLANT AND MACHINERY SECTIONAL  
COMMITTEE, MED 18**

Meeting No.	Date	Place
27th	12 01 2024	Webex
28th	16 05 2024	Hybrid Mode
29th	19 09 2024	Virtual Mode

Sl. No.	Organisation Represented	Principal Member/Alternate Member	27th	28th	29th	Total
1.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Brig Rajneesh Bhatnagar (Chairperson)	Y	Y	Y	3/3
2.	AIMIL Ltd, New Delhi	Shri Rohitash Barua Shri K. K. Vyasas (Alt)	Y	Y	Y	3/3
3.	Ajax Engineering Private Limited, Bengaluru	Shri Syed Mohammed Riaz Nawaz Shri Joelin P V (Alt I) Shri Manjunath D Jaggal (Alt II) Shri Krishna Kishore (Alt III)	N	Y	Y	2/3
4.	Ammann Apollo India Pvt Ltd, Ahmedabad	Shri Prasad Krishnan Shri Prashant Kulkarni (Alt)	N	N	Y	1/3
5.	Atlas Copco (India) Ltd, Pune	Shri Vijay Sharma Shri Yogesh Tuljapurkar (Alt)	Y	Y	N	2/3
6.	B. G. Shirke Construction Technology Limited, Pune	Shri A.D. Bhosale Shri Sunil Kedar (Alt)	N	Y	Y	2/3
7.	Central Building Research Institute, Roorkee	Dr Banti A. Gedam Dr. Veena Chaudhary (Alt)	Y	N	Y	2/3
8.	Caterpillar India Pvt Ltd., Chennai	Shri K. Reji Jose Shri V. Bhaskaran	Y	Y	Y	3/3
9.	Central Water Commission, New Delhi	Shri Dilip Kumar Jha Shri Krishnaji Singh (Alt)	Y	Y	Y	3/3
10.	Directorate General Border Roads, New Delhi	Col Zorawar Singh Rana	Y	Y	Y	3/3
11.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Shri AA Kodam Lt Col Plabam Gogoi (Alt)	N	N	Y	1/3
12.	Epiroc Mining India Limited, Nashik	Shri Venkatesan Bashyam Shri Muttanna Japannavar (Alt)	Y	N	N	1/3
13.	IRCON International Ltd, New Delhi	Shri Ashutosh Namdev Shri Sanjeev Kumar (Alt)	Y	Y	Y	3/3
14.	Indian Construction Equipment Manufacturers' Association, Bengaluru	Shri K.V. Krishnamurthy Shri Naveen Upreti (Alt)	Y	Y	Y	3/3
15.	Infra Bazar Tech Private Limited, Bangalore	Shri Keshava K Shri Suresh Kumar (Alt)	NA	NA	NA	NA
16.	Jaypee India Ltd, Kolkata	Shri Kumar M. Mehta Shri Rahul Kumar Teotia (Alt)	Y	N	Y	2/3
17.	John Deere India Pvt Ltd, Pune	Shri Karthik Kaliappan Shri Raj Anand (Alt)	Y	Y	Y	3/3
18.	L&T Construction Limited, Karnataka	Shri Guruprasad S R Shri Dhanaji Hariba Mangude (Alt)	Y	Y	Y	3/3
19.	Larsen and Toubro Limited, Mumbai	Shri K. Keshava Shri M. Suresh kumar (Alt)	Y	Y	Y	3/3
20.	National Council for Cement & Building Materials, Faridabad	Shri Kapil Kukreja Shri Saurabh Bhatnagar (Alt)	Y	Y	Y	3/3
21.	Propel Industries Private Limited	Shri Hari Prakash R Shri U. Senthil Kumar	Y	Y	Y	3/3
22.	Roots Multiclean Limited, Coimbatore	Shri Vivek.P Shri Siddharth.S (Alt)	NA	NA	Y	1/3
23.	Schwing Stetter (India) Private Limited, New Delhi	Shri Rajeev Shalia Shri Varadharajan R. (Alt)	N	Y	Y	2/3
24.	Terex India Private Limited, Hosur, Tamil Nadu	Shri Amol Sinha Shri Girish Dandally Nanjappa	N	Y	Y	2/3



25.	Volvo Construction Equipment, Bangalore	Shri V.R.S.P. Polipalli Shri Raghuraman (Alt)	N	Y	N	1/3
26.	Wirtgen India Pvt. Ltd. Pune	Shri Dhanesh Jayapal Shri Prashant Chaudhari (Alt)	N	Y	Y	2/3
27.	In Personal Capacity, New Delhi	Shri S.N. Mahajan	Y	Y	Y	3/3
28.	In Personal Capacity, New Delhi	Shri Satender Kumar	Y	Y	Y	3/3

### COMPOSITION OF PUMPS SECTIONAL COMMITTEE, MED 20

No. of Meeting	Date	Place
23 <sup>rd</sup>	09-08-2023	Virtual
24 <sup>th</sup>	24-01-2024	Physical mode at SIEMA office, Coimbatore, Tamil Nadu
25 <sup>th</sup>	25-06-2024	Central Water and Power Research Station (CWPRS), Pune in physical mode

Sl No.	Organisation Represented	Principal Member/Alternate Member	23 <sup>rd</sup>	24 <sup>th</sup>	25 <sup>th</sup>	TOTAL
1.	In Personal Capacity	Shri A. K. Nijhawan (Chairman)	Y	N	Y	2/3
2.	Aquasub Engineering, Coimbatore	Shri C. Murugesan Shri P. Ramesh (Alt) Shri G. Prasath (Young Professional)	Y	Y	Y	3/3
3.	Best Engineers Pumps Pvt. Limited, Coimbatore	Mrs. C. G. Sripriya Mr. T. Parthiban (Alt)	Y	Y	N	2/3
4.	Bharat Heavy Electrical Limited, New Delhi	Shri Anuj Jain Shri Hardeep Singh Dogra (Alt)	Y	N	N	1/3
5.	Bharat Petroleum Corporation Ltd., Mumbai	Shri D. P. Chandramore Shri Santosh N. Kale (Alt)	Y	Y	Y	3/3
6.	Bureau of Energy Efficiency, New Delhi	Ms P. Samal Shri Mukhe K Sai Satvik (Alt I) Shri Kamran Shaikh (Alt II)	Y	N	N	1/3
7.	Central Water & Power Research Station, Pune	Shri Abdul Rahiman	Y	Y	N	2/3
8.	Chief Quality Assurance Establishment, Ministry of Defense, New Delhi	Shri G. Arvindam	N	N	N	0/3
9.	Crompton Greaves Consumer Electricals Limited, Ahmednagar	Shri Suchit Naik Shri Pravin Murdekar Shri Rohit Bhadane	Y	N	Y	2/3

10.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Shri Lalajee Dongre Shri R.V. Jain ( <i>Alt</i> )	N	N	N	0/3
11.	Electrical Research & Development Association (ERDA), Vadodra, Gujrat	Shri Ravi Prakash Singh Shri Jitendra Tahilwani ( <i>Alt</i> )	Y	N	Y	2/3
12.	Engineers India Ltd, New Delhi	Shri Abhay Kumar Ms Rima Singh ( <i>Alt I</i> ) Shri Mahesh Gupta ( <i>Alt II</i> )	Y	N	N	1/3
13.	Gail India Ltd, New Delhi	Shri Rakesh Kumar Singh Shri Shashi Ranjan ( <i>Alt</i> )	Y	N	N	1/3
14.	Grundfos Pumps India Private Limited, Chennai	Shri Sanjeev Choudhary Shri Amitrup Dutta ( <i>Alt</i> )	Y	Y	Y	3/3
15.	Havells India Ltd., Noida	Shri Anil Sukumar Akole	Y	Y	Y	3/3
16.	Hindustan Petroleum Corporation Ltd., Mumbai	Shri Sourabh Sharma Shri Akash Raj ( <i>Alt</i> )	Y	Y	N	2/3
17.	Indian Pump Mfrs Association	Shri Lalit Kumar Patel	Y	N	Y	2/3
18.	International Copper Association India, Mumbai	Shri K N Hemanth Kumar	Y	Y	N	2/3
19.	Kirloskar Brothers Limited, Pune	Shri R.S. Birajdar Shri Shri Sudhir Mali ( <i>Alt</i> )	Y	Y	Y	3/3
20.	KSB Pumps Limited, Pune	Shri Rajesh B Gote Shri Dattatray Katkar ( <i>Alt</i> )	Y	N	Y	2/3
21.	Mecon Limited, Ranchi	MD Aziz Ahmad Shri Sandeep Kumar ( <i>Alt</i> )	Y	N	N	1/3
22.	National Bank for Agri & Rural Development, Mumbai	Shri D. Elangovan Shri A. K. Sinha ( <i>Alt I</i> ) Shri Sukanta K. Sahoo ( <i>Alt II</i> )	Y	Y	Y	3/3
23.	North India Pump Manufacture Association, Jalandhar	Shri CL GARG	—	—	N	0/1
24.	Punjab Agriculture University, Ludhiana	Dr (Prof.) Sunil Garg Shri Sanjay Satpute ( <i>Alt</i> )	Y	N	N	1/3
25.	Rajkot Engg Association, Rajkot	Shri Sunny R. Marvania Shri Vinod Asodariya ( <i>Alt I</i> )	Y	N	N	1/3
26.	Scientific and Industrial Testing and Research Centre, Coimbatore	Shri Ma Sendilkumar Dr. K Ulaganathan ( <i>Alt</i> )	Y	Y	Y	3/3
27.	Southern India Engineering Manufacturers Association, Coimbatore	Shri K.V. Karthik Shri D. Vignesh ( <i>Alt</i> )	Y	Y	Y	3/3
28.	Waterman Industries Private Limited, Ahmedabad	Shri Utkarsh. A. Chhaya Shri Dipak Darji	-	Y	Y	2/2
29.	Wilo Mather and Platt Pumps Ltd, Pune	Shri Kishor A. Dumbre	Y	N	Y	2/3
30.	WPIL Limited, Ghaziabad	Shri Lokesh Jayal Shri Sanjay Ray Shri Debajyoti Das	-	-	Y	1/1
31.	In Pesonal Capacity, Mumbai	Shri S. L. Abhyankar	Y	N	N	1/3
32.	In Pesonal Capacity,	Mr. Shri A. K. Jain	Y	N	Y	2/3

**DIAMOND CORE AND WATERWELL DRILLING SECTIONAL COMMITTEE,  
MED 21**

Meeting	Date	Place
28 <sup>th</sup>	27 June 2023	Virtual
29 <sup>th</sup>	15 March 2024	Virtual
30 <sup>th</sup>	23th September	Hyderabad Branch Office, BIS

Sl No.	Organization Represented	Principal/Alternate	28 <sup>th</sup>	29 <sup>th</sup>	30 <sup>th</sup>	Total
1.	Geological Survey of India, New Delhi	Shri Ajay Agarwal (Chairperson)	Y	Y	Y	3/3
2.	Aqseptence Group (India) Pvt. Ltd.( Formaly Known as Johanson Screens India Pvt. Ltd.) Gujarat	Shri Shiv Narayan Singh  Shri Shiven Amin (Alt)	Y	Y	Y	3/3
3.	Atlas Copco (I) Ltd. Pune	Shri Shudhanshu Nigam  Shri S. Datta Majumdar (Alt)	N	N	N	0/3
4.	Central Ground Water Board, Faridabad	Shri C. B. Singh Shri Amit Kumar Singh (Alt)	N	Y	Y	2/3
5.	Central Mine Planning and Design Institute, Ranchi	Shri Anil Savanur Shri A.V. Ramakrishna (Alt)	N	N	Y	1/3
6.	Epiroc Mining India Limited, Nashik	Shri Sujeet Kumar Shri Chandan Ghosh (Alt)	N	N	N	0/3
7.	Geological Survey of India	Shri Anup Kumar Johri (Alt) Shri C. B. Tiwari (Yp) Shri S. Shankar (Yp)	Y	Y	Y	3/3
8.	Indian Institute of Technology (ISM), Dhanbad	Mohammed Hamid Siddique Shri Pawan Gupta Shri Vinay Kumar Rajak	Y	Y	Y	3/3
9.	Indian Institute of Technology, Kanpur	Prof. J. Ramkumar Prof Sudhanshu Shekhar Singh (Alt)	N	N	N	0/3
10.	Indian Institute of Technology Kharagpur, Kharagpur	Prof. Khanindra Pathak Shrimati Sunita Mishra	Y	Y	Y	3/3
11.	Indian Institute of Technology, Roorkee	Prof B.K. Gandhi Shri Varun Kumar Sharma (Alt)	N	Y	Y	2/3
12.	Indian Pump Manufacturers Association, Mumbai	Shri Utkarsh A. Chhaya	N	N	N	0/3
13.	Kores (India) Ltd, Mumbai	Shri Sandeep Dholi	Y	N	Y	2/3
14.	Mining Associates Pvt Ltd, West Bengal	Shri Ram Babu Bansal	N	N	N	0/3
15.	Rites Ltd, Gurgaon	Shri S. Kunal	N	N	N	0/3
16.	Rockdrill (India), Jodhpur	Shri Kamal Kishor Gupta	N	Y	Y	2/3

		Shri Ravindra Ku. Gupta (Alt)				
17.	Sandvik Smith Asia Ltd, A.P.	Shri Rangayya Naidu Shri N. Bhaskara Reddy (Alt)	N	N	Y	1/3
18.	In Personal Capacity	Shri Mahesh Chandra Jindal	N	N	N	0/3
19.	In Personal Capacity	Shri A.B. Anand	Y	Y	Y	3/3
20.	In Personal Capacity	Shri P.C. Dewli	N	N	N	0/3

**COMPOSITION OF COMPRESSOR, BLOWERS AND EXHAUSTERS SECTIONAL  
COMMITTEE, MED 22**

No. of Meeting	Date	Place
24 <sup>th</sup>	23-01-2024	Virtual
25 <sup>th</sup>	21-06-2024	Virtual
26 <sup>th</sup>	20-09-2024	BHEL Office, Hyderabad (Physical )

	ORGANISATION REPRESENTED	PRINCIPAL MEMBER/ ALTERNATE MEMBER	24 <sup>th</sup>	25 <sup>th</sup>	26 <sup>th</sup>	Total
2.	In Personal Capacity	Shri K. Ravi (Chairperson)	Y	Y	Y	3/3
3.	Atlas Copco India Ltd, Pune	Shri Vijay Sharma	Y	Y	N	2/3
4.	Automotive Research Association of India, Pune	Shri Prasad Yadav Shri Atul Gaikwad (Alt)	N	Y	N	1/3
5.	Bharat Heavy Electricals Limited, New Delhi	Shri Y. V. Rama Lakshmi Shri Vineet Kumar Nema (Alt) Shri N Suguna (Alt) Shri Madhusudan (Alt) Shri Sai Pratap KUV (Alt)	Y	Y	Y	3/3
6.	BHEL-GE Gas Turbines Services Pvt Ltd., Hyderabad	Shri H.V Ramana Murthy Shri S. Venkadesh (Alt)	N	Y	Y	2/3
7.	Boldrocchi India Private Limited, Gurugram	Shri Nokesh Aggarwal Shri Piyush Goel (Alt)	N	N	Y	1/3
8.	Bharat Petroleum Corporation Limited, Kochi	Shri Kannan V. V.	N	Y	N	1/3

9.	Burckhardt Compression India Pvt Ltd, Noida	Shri Pradip P. Shejal Shri Atul B. Prabhune (Alt)	Y	Y	N	2/3
10.	CSIR - National Physical Laboratory, New Delhi	Prof Dr. M. Singh Dr Rajesh Kumar (Alt)	Y	N	N	1/3
11.	CSIR - National Aerospace Laboratories, Bengaluru	Shri Thennavarajan S.	Y	Y	N	2/3
12.	Directorate General Of Quality Assurance, Ministry Of Defence, New Delhi	Lt Col Deepak Sharma Shri U. R. Raja (Alt)	Y	Y	N	2/3
13.	Dresser Rand India Pvt Ltd (A Siemens Business), Gujarat	Shri M.H. Vyas Shri J. B. Raval (Alt)	Y	N	Y	2/3
14.	Elgi Equipments Ltd, Coimbatore	Shri Jayaraj B. Shri S. Senthil Kumar (Alt)	Y	Y	Y	3/3
15.	Engineers India Limited, Gurugram	Shri J. S. Duggal Shri Mahesh Easwarn (Alt) Ms. Rima Singh (Alt)	Y	Y	N	2/3
16.	GAIL (India) Limited, New Delhi	Shri Upal Sengupta Shri Praseed Sahu (Alt)	N	Y	Y	2/3
17.	GE Vernova, Gas Power, Bangalore	Shri Dinesh Venugopal Setty Shri Joshy John (Alt)	Y	Y	N	3/3
18.	Hindustan Petroleum Corpn Ltd, Mumbai	Shri V. V. Rajasekhar Shri Munesh Kumar (Alt)	Y	Y	Y	3/3
19.	Indian Institute of Technology Roorkee, Roorkee	Prof. Arun Kumar Shri C S Pant (Alt)	Y	Y	N	2/3
20.	Indian Register of Shipping , Mumbai	Shri Suneet Digikar Shri Karthik. S. (Alt)	Y	Y	Y	3/3
21.	<u>Ingersoll Rand India Limited</u> , Ahmedabad	Shri Dileep Patil Ms Lakshmeshree Nair (Alt) Shri Mahesh Kumar K.R (Alt)	N	Y	Y	2/3
22.	NHPC Ltd.	Shri Arun Kumar singh Shri Vikas Kumar (Alt) Shri Abhinav Kumar Singh (Alt)	N	N	N	0/3
23.	NTPC Limited, New Delhi	Shri Anuj Kumar Shahi Shri Doondeshwar V. (Alt)	Y	Y	Y	3/3
24.	National Fertilizers Limited, Noida	Shri M. N. Goyal Shri Rajeev Kumar Agarwal (Alt)	Y	Y	N	2/3
25.	Nayara Energy Limited, Mumbai	Shri Chirag Prajapati Shri Jigar Parikh (Alt)	Y	Y	Y	3/3
26.	Oil And Natural Gas Corporation Limited, New Delhi	Shri Braj Kishor Rai Shri Rituraj Hazarika (Alt)	Y	N	Y	2/3
27.	Reliance Industries Limited, Mumbai	Shri Manish H Shah Shri Harendra Singh (Alt)	N	Y	Y	2/3

28.	Research Designs and Standards Organization (RDSO), Lucknow	Shri Vijay Kumar Goel Shri Satnam Singh (Alt)	Y	Y	N	2/3
29.	Siemens Limited, Mumbai	Shri Kandarp Brahmhatt Shri Shailendra Pali (Alt) Shri Giridhar Kumar Dhinne (Alt) Shri Shallu Thakur (Alt)	Y	Y	Y	3/3
30.	Tata Consulting Engineers Limited, Navi Mumbai	Shri Shireesh S. Swami Shri Aslam Basha B. (Alt)	Y	Y	N	2/3
31.	Triveni Turbines Ltd, Bangalore	Shri Sankar B. Shri Raghavendra Shetty (Alt)	N	NA	Y	1/1

**DOMESTIC AND COMMERCIAL GAS BURNING APPLIANCES  
(PRESSURE TYPE) SECTIONAL COMMITTEE, MED 23**

Meeting No.	Date	Place
34 <sup>th</sup>	15-03-2024	Virtual
35 <sup>th</sup>	12-06-2024	Hybrid
36 <sup>th</sup>	30-08-2024	Virtual

SL NO.	ORGANIZATION REPRESENTED	PRINCIPAL /ALTERNATE	34 <sup>t</sup> <sub>h</sub>	35 <sup>t</sup> <sub>h</sub>	36 <sup>t</sup> <sub>h</sub>	TOTAL
1.	Lpg Equipment Research Centre, Bangalore	Shri T D Sabu (Chairperson) Shri P.R Deodhar (Alt)	Y	Y	Y	3/3
2.	All India Lp Gas Stove Association, Delhi	Shri Yugal Malhotra	N	N	N	0/3
3.	Bharat Petroleum Corporation, Ltd, Mumbai	Shri Hari Babu Banoth Ms. Ruchika Tuli (Alt)	Y	Y	Y	3/3
4.	Bureau Of Energy Efficiency	Ms. Pravatanalini Samal Shri Kamran Shaikh (Alt) Shri Mukhe K Sai Satvik (Alt)	N	Y	Y	2/3
5.	Bsh Household Appliances Mfg. Pvt. Ltd (Bosch-Siemens)	Shri Longanathan Vijay Kumar	Y	Y	Y	3/3
6.	Butterfly Gandhimathi Appliances Private Limited, Chennai	Shri K. Shanmugavelu Shri A. Baskar (Alt)	N	N	Y	1/3
7.	Csir - Indian Institute Of Petroleum, Dehradun	Shri Pankaj Kumar Arya	N	N	Y	1/3
8.	Goyal Engineers Private Limited, New Delhi	Shri Ajay Goyal Shri Neeraj Goyal (Alt)	Y	Y	Y	3/3
9.	Hindustan Petroleum Corpn Ltd, Mumbai	Shri Pitabas Sarangi Shri Reddy Dhanumjaya Rao (Alt)	Y	Y	Y	3/3
10.	Ideal Engineers Hyderabad Private Limited, Hyderabad	Shri Satish Kabra	N A	Y	Y	2/2
11.	Indraprastha Gas Limited, New Delhi	Shri Pawan Kumar Shri Anupe Francis (Alt)	N	N	N	0/3

12.	Indian Institute Of Technology, Guwahati	Prof. Muthu Kumar	N	Y	Y	2/3
13.	Mahanagar Gas Limited, Mumbai	Shri Bhattiprolu Ram Sudheer Ms. Neha Kharya (Alt)	N	Y	Y	2/3
14.	Ariston Thermo India Pvt. Ltd, Pune (Racold Thermo Pvt. Ltd.)	Shri Abhijit Banshelkikar	Y	Y	Y	3/3
15.	Rama Domestic Appliances, New Delhi	Shri Amarjeet Singh .Kohli Shri Manmohan Krishnan (Alt)	Y	N	Y	2/3
16.	Shri Krishna Test House	Shri Sunil Talwar	Y	Y	Y	3/3
17.	Sunflame Enterprises Pvt. Ltd., Faridabad	Shri Prasad Teni	Y	Y	N	2/3
18.	Stovekraft, Karnataka	Shri Vivek Kulkarni	N A	Y	Y	2/2

### COMPOSITION OF SECURITY EQUIPMENT SECTIONAL COMMITTEE, MED 24

No. of Meetings	Date	Place
34 <sup>th</sup>	30-01-2024	Virtual
35 <sup>th</sup>	28-05-2024	Hybrid
36 <sup>th</sup>	24-09-2024	Virtual

Sl No.	Organization Represented	Principal Member/Alternate Member	34 <sup>th</sup>	35 <sup>th</sup>	36 <sup>th</sup>	Total
1.	Reserve Bank Of India	Shri Pushkar Ekka (Chairperson)	Y	Y	Y	3/3
2.	Bank Of India, Mumbai	Capt Akhilesh Kumar	Y	Y	Y	3/3
3.	Central Bank Of India, Mumbai	Col. A. K. Jha	Y	Y	Y	3/3
4.	Emtac Laboratories Private Limited	Shri Gatta Venkata Jagadeesh Babu	Y	N	Y	2/3
5.	Godrej & Boyce Manufacturing Company Limited, Mumbai	Shri Devidas Thorat Shri Pushkar Gokhale (Alt)	Y	Y	Y	3/3
6.	Guardwel Industries Private Limited,	Shri Ericsson Vency Coelho Shri George Selvaraj (Alt)	Y	Y	N	2/3
7.	Gujarat Test House, Ahmedabad	Shri A. N. Barua Shri R. D. Vaghela (Alt)	N	N	N	0/3
8.	Gunnebo India Private Limited, Thane	Shri Anirban Mukhuti Shri Ajay Kumar M Jadhav (Alt)	Y	Y	Y	3/3
9.	International Gemological Institute (India) Private Limited, Mumbai	Shri Tehmasp Printer Ms Kareena Shahani (Alt)	Y	Y	Y	3/3
10.	Indian Overseas Bank, Chennai	Capt Devender Kumar	Y	Y	Y	3/3
11.	In Personal Capacity	Shri Ajit G. Naravane	Y	Y	Y	3/3
12.	In Personal Capacity	Shri Prashant C	Y	Y	Y	3/3
13.	Methodex Systems Limited, Indore	Shri Sameer Kishore Singh Shri Karan Katariya (Alt)	Y	Y	Y	3/3
14.	Ncr Corporation India Pvt Ltd., Mumbai	Shri Ashok Shankar	Y	N	N	1/3
15.	Punjab National Bank, New Delhi	Maj. Gaurav P S Uppal Shri Abhik Singh (Alt)	Y	Y	Y	3/3

16.	Safeage Security Products Private Limited, Mumbai	Shri Rajan Vasanoi Shri Naresh Panchal (Alt)	Y	Y	Y	3/3
17.	Sherni Locks Manufacturers Private Limited, Pune	Shri Farokh Kutar Smt Arti Gupta (Alt)	Y	Y	Y	3/3
18.	Shriram Institute For Industrial Research, Delhi	Dr. D. P. Jain Sh Alok Kumar (Alt)	Y	Y	Y	3/3
19.	State Bank Of India, Mumbai	Captain Sushil Singh Sh Pramod Kumar (Alt)	Y	N	Y	2/3
20.	Union Bank Of India, Mumbai	Lt. Colonel Sanjay Kumar	Y	N	N	1/3

### COMPOSITION OF PRINTING MACHINERY SECTIONAL COMMITTEE MED 25

No. of Meeting	Date	Place
24 <sup>th</sup>	03-03-2024	Hybrid (Lucknow, Uttar Pradesh)
25 <sup>th</sup>	24-07-2024	Virtual
26 <sup>th</sup>	18-10-2024	Institute for Home Science and Higher Education for Women, Coimbatore, (PHYSICAL)

Sl. No	ORGANISATION REPRESENTED	PRINCIPAL MEMBER /ALTERNATE MEMBER	24 <sup>th</sup>	25 <sup>th</sup>	26 <sup>th</sup>	TOTAL
	Savitribai Phule Pune University, Ganeshkhind, Pune	Dr. Dattatraya Kute (Chairperson)	Y	Y	Y	3/3
	All India Fed. Of Master Printers, New Delhi	Sh. Harjinder Singh President (Alt )	Y	Y	Y	3/3
	Anna University, Chennai	Dr. K. Senthil Vadivu Dr. M. Kanchana (Alt)	Y	Y	Y	3/2
	Autoprint, Combatore	Sh K. G. Suresh Sh Mahesh R S (Alt)	Y	Y	Y	3/3
	Avinashilingam Institute For Home Science And Higher Education For Women, Coimbatore	Ms. A. Arulmozhi	Y	Y	Y	3/3
	Bennett Coleman & Co. Ltd., Ghaziabad	Sh Navneet Ahuja Sh Chand Kumar Sharma (Alt)	Y	Y	Y	3/3
	Boettcher India Private Limited, Faridabad	Sh Sandeep Saini Sh Manoj Madhukar (Alt)	N	N	N	0/3
	Dr. Babasaheb Ambedkar Marathwada University Aurangabad	Sh Parag Hase	Y	Y	N	2/3
	Guru Jambheshwar University, Hisar	Dr. Anjan Kumar Baral Sh. Sanjeev Kumar (Alt) Sh Bijender (Yp)	Y	Y	Y	3/3
	In Personal Capacity	Sh Diptendu Chowdhury	Y	Y	Y	3/3



	Indian Ptg, Pkg & Allied Machinery Mfrs Assn, Noida	Sh. S. Dayaker Reddy Sh Prashant Vats (Alt)	N	Y	Y	2/3
	Komori Corporation, New Delhi	Sh Amitabh Jha	N	N	N	0/3
	Kodak India Private Limited, Mumbai	Sh Abhiram Sathe Sh Ashok Miylani (Alt) Sh Rohan Kulkarni (Alt)	N	N	N	0/3
	Konica Minolta Business Solutions Ind Pvt Ltd, Gurgaon	Sh Manish Gupta Sh Ankit Madan (Alt)	N	Y	Y	2/3
	Manugraph Industries Ltd, Shirol, Kolhapur, Maharashtra	Sh Mahesh Madhukar Joshi	Y	Y	Y	3/3
	Mrl Printing Rolls Private Limited, Modinagar	Sh Vaibhav Agarwal	N	Y	Y	2/3
	Office Of The Development Commissioner (Msme), New Delhi	Ms Maitreyee Talpatra Sh Susanta Kumar Som (Alt)	Y	Y	Y	2/3
	Pvg's College Of Engineering And Technology, Pune	Prof. M P Mahajan Prof. Swati Dutt (Alt.)	Y	Y	Y	3/3
	Pvg's Maharashtra Institute Of Printing Technology, Pune	Sh Parmeshwar Vishwanath Shinde	Y	Y	Y	3/3
	Pratham Technologies Pvt., Ltd., Pune	Sh Datta Deshpande Sh Anand Kulkarni (Alt) Sh Mayur Patil (Alt)	NA	Y	Y	2/2
	Sakal Media Pvt. Ltd., Pune	Sh Sanjay Wagle Sh Prasad Pathak (Alt)	N	N	N	0/3
22.	Technova Imaging Systems (P) Limited, Mumbai	Sh Iyer Murali Krishnan Sh Shiva Subramanian (Alt)	N	Y	Y	2/3
23.	The Printers House Pvt Ltd., Ballabgarh	Sh S K Dixit Sh D P Dabas (Alt)	N	Y	N	1/3

**COMPOSITION OF OIL BURNING APPLIANCES SECTIONAL COMMITTEE,  
MED 26**

Meeting Number	Date	Place
26 <sup>th</sup>	20-10-2023	Virtual
27 <sup>th</sup>	27-03-2024	Virtual
28 <sup>th</sup>	09-08-2024	LERC Bengaluru (Hybrid mode)

Sl No	Organization	Principal/Alternate Number	27 <sup>th</sup>	28 <sup>th</sup>	29 <sup>th</sup>	Total
1.	Indian Institute of Petroleum, Dehradun	Dr G.D. Thakre ( <i>Chairperson</i> )	N	Y	Y	2/3
2.	Bharat Petroleum Corporation Limited, Mumbai	Shri Rahul Garg Shri Chithra Vishwanath (Alt)	Y	Y	Y	3/3

3.	Bombay Light and Stove Merchants Association, Mumbai	Shri Mahesh D. Bakhai	N	N	N	0/3
4.	CSIR-Indian Institute of Petroleum, Dehradun, UK	Shri Pankaj Kumar Arya Shri Satish Kumar(Alt)	Y	N	N	1/3
5.	Directorate General of Quality Assurance, Ministry of Defence, Kanpur, UP	Shri R. K. Boruah	N	N	N	0/3
6.	Directorate General of Quality Assurance, Ministry of Defence, New Delhi	Shri M.V. Kumbhalkar Shri S.J. Kolarkar (Alt)	N	N	N	0/3
7.	Directorate General of Supplies and Disposals (Quality Assurance Wing), New Delhi	Shri A. K. Rai	N	N	N	0/3
8.	IIT Tirupati, Tirupati	Shri Muthu Kumar	—	Y	Y	2/2
9.	Indian Oil Corporation Ltd, Faridabad, Haryana	Dr S P Singh Shri Rajendra Mahapatra(Alt)	Y	Y	N	2/3
10.	KOKO Networks Pvt. Ltd. Gandhinagar, Gujrat	Shri Amit Gajjar Ms Pratibha Maurya(Alt)	Y	Y	Y	3/3
11.	LPG Equipment Research Center, Bengaluru, Karnataka	Shri T D Sabu Shri Subrat Kumar Panigrahi(Alt)	Y	Y	Y	3/3
12.	Office of the Development Commissioner (SSI), New Delhi (MSME)	Shri Susanta Kumar Som Ms. Maitreyee Talapatra(Alt)	Y	N	Y	2/3

### COMPOSITION OF HANDPUMPS SECTIONAL COMMITTEE, MED 27

Meeting	Date	Place
27th	20-09-2024	Virtual
26th	25-06-2024	Virtual
25th	06-02-2024	Hybrid/BIS Pune

Sl No.	Organization Represented	Principal Member/Alternate Member	25 <sup>th</sup>	26 <sup>th</sup>	27 <sup>th</sup>	Total
1.	In Personal Capacity, Chennai	Shri G. Shanmuganathan ( <i>Chairperson</i> )	N	Y	Y	2/3
2.	Ajay Industrial Corporation, Ghaziabad	Shri Akhil Jain Shri Shiwanand Tiwari (Alt)	Y	Y	N	2/3
3.	AOV International, Noida	Shri K. L. Verma Shri Vishal Kapoor (Alt)	N	N	Y	1/3
4.	Apex International, Noida	Shri Lalit Khanna Shri Sanchit Khanna (Alt)	Y	Y	Y	3/3
5.	Directorate of Groundwater Survey & Development Agency (GSDA), Nagpur	Shri H. S. Dhokale Shri N. L. Lonkar (Alt)	Y	N	Y	2/3
6.	Government of Telangana, Mission Bhageeratha (RWSKS) Department, Telangana	Shri Narendar Reddy Shri Thaviti Rajaiah (Alt)	N	Y	Y	2/3

7.	Meera & Ceiko Pumps Pvt. Ltd, Secunderabad, Hyderabad	Shri Mahesh K. Desai Shri M. Mahender Kumar (Alt)	Y	Y	Y	3/3
8.	Office of The Development Commissioner (MSME), New Delhi	Shri Sunil Kumar Shri Suvankar Santra (Alt)	Y	Y	Y	3/3
9.	Ori-Plast Limited, Balasore	Shri Somnath Mukherjee Shri Sanjay Kumar Mohapatra (Alt)	Y	Y	N	2/3
10.	Public Health Engineering Department, Bhopal, Govt. of Madhya Pradesh	Shri Ashok Baghel Shri Anurag Shrivastava (Alt)	N	N	N	0/3
11.	Public Health Engineering Department, Jaipur, Govt. of Rajasthan	Shri Kishor Kachhawa	Y	N	Y	2/3
12.	Rural Water Supply and Sanitation Department, Vijayawada Govt. of Andhra Pradesh	Shri B. Hare Ram Naik Shri B. Sreekant (Alt)	Y	N	N	1/3
13.	SGS India Ltd., Mumbai	Lt Col Parmeswar Nai Shri Arun Gaur (Alt)	Y	Y	N	2/3
14.	Span Pumps Pvt. Ltd., Pune	Shri Ajit Bhandari Shri Narendra Purankar (Alt)	Y	Y	Y	3/3
15.	United Nation Children's Fund, New Delhi	Shri Manish Wasuja	N	Y	Y	2/3
16.	In Personal Capacity	Shri Nirmal Chittora	N	Y	Y	2/3
17.	In Personal Capacity	Shri Vishwas Joshi	Y	Y	N	2/3

**COMPOSITION OF MECHANICAL VIBRATION AND SHOCK SECTIONAL COMMITTEE, MED 28**

Meeting	Date	Place
27 <sup>th</sup>	20-12-2023	Hybrid
28 <sup>th</sup>	29-05-2024	Hybrid
29 <sup>th</sup>	12-09-2024	Hybrid

Sl. No	ORGANISATION REPRESENTED	PRINCIPAL MEMBER/ ALTERNATE MEMBER	27 <sup>th</sup>	28 <sup>th</sup>	29 <sup>th</sup>	Total
1.	Bharat Heavy Electricals Ltd. , Hyderabad	Shri Manish Agrawal ( <i>Chairperson</i> )	Y	Y	Y	3/3
d)	Automotive Research Association of India, Pune	Shri V. V. Shinde Shri Prashant R. Pawar Shri Nikhil R. Bakal ( <i>YP</i> )	N	N	Y	1/3
4.	Bhabha Atomic Research Centre , Mumbai	Shri Jitendra Kumar Pandey Shri S K Sinha ( <i>Alt</i> )	N	N	N	0/3
1.	Bharat Dynamics Limited, Hyderabad	Shri K. Sreenivasa Rao Shri Anil Kumar ( <i>Alt</i> )	Y	Y	Y	3/3

•	Bharat Heavy Electricals Ltd. (Manufacturing Centre), Hyderabad	Ms Clara Toppo Shri Manish Chandra Gupta ( <i>Alt</i> )	N	N	Y	1/3
	Bharat Heavy Electricals Ltd. , New Delhi	Shri Ankit Agrawal ( <i>Alt</i> ) Shri Prince Malik ( <i>Alt</i> )	Y	Y	Y	3/3
3.	Bosch Limited, Bengaluru	Shri Shiva Kiran A R Shri Parinit Angadi ( <i>Alt</i> )	NA	Y	Y	2/2
1.	CSIR - National Physical Laboratory, New Delhi	Dr. Naveen Garg Dr. Chitra Gautam	Y	Y	Y	3/3
1.	CSIR – Central Mechanical Research Institute, Durgapur	Dr. S.K. Laha	Y	Y	N	2/3
1.	CSIR - National Aerospace Laboratories, Bengaluru	Dr. Soumendu Jana Dr. Sadanand S. Kulkarni ( <i>Alt</i> )	Y	Y	Y	3/3
3.	D-CAD Technologies , New Delhi	Shri Nakul Joshi	N	N	N	0/3
20.	Defence Research and Development Organization, Research Centre Imarat, Hyderabad	Shri Vivek Kumar Bajpai Shri Ravindra Kumar Misra ( <i>Alt</i> )	N	N	N	0/3
3.	Hindustan Aeronautics Ltd, Bangalore	Shri A. V. Vaitheeswaran Shri M. Murali ( <i>Alt</i> )	N	N	Y	1/3
b)	Indian Institute of Technology Bombay, Mumbai	Shri V. Kartik	Y	Y	Y	3/3
36.	Indian Institute of Technology ,Hyderabad	Shri B. Venkatesham Shri R. Prashant Kumar ( <i>Alt</i> )	N	N	Y	1/3
1.	Indian Institute of Technology, Kanpur	Prof Pankaj Wahi	N	N	Y	1/3
1.	Indian Institute of Technology ,Chennai	Shri Seshadri Sekhar	N	N	N	0/3
2.	Indian Institute of Technology, Deptt. of Earthquake Engg, Roorkee	Shri Manish Shrikhande Dr Anil Kumar ( <i>Alt</i> )	Y	Y	Y	3/3
1.	Indian Institute of Technology, Indore	Dr Anand Parey	NA	NA	Y	1/1
	Indian Space Research Organization - Vikram Sarabhai Space Centre, Thiruvananthapuram	Shri R. Arunkumar Shri Balamurali A.G ( <i>Alt</i> )	Y	Y	Y	3/3
2)	Indira Gandhi Centre For Atomic Research, Kalpakkam	Dr B. K. Sreedhar	Y	N	N	1/3
1.	Maruti Udyog Limited, Gurugram	Shri Mugundaram R Shri Joydeep Chatterjee ( <i>Alt</i> )	N	Y	N	1/3
1.	Naval Science and Technological	Dr. V Rama Krishna Mr. K Udayanand ( <i>Alt</i> )	Y	Y	Y	3/3

	Laboratories, Visakhapatnam					
•	Oil and Natural Gas Corporation Limited, New Delhi	Shri Harish Bhambhani Shri Niraj Kumar (Alt)	N	N	Y	1/3
1.	Resistoflex Pvt Ltd, New Delhi	Shri Ratish Jain Shri Meha Jain (Alt) Shri Abhishek Shukla (YP)	Y	Y	Y	3/3
3.	Sampoorna Rotor Dynamics Consultancy, Bangalore	Dr. V. Bhaskarsarma	N	N	Y	1/3
c)	Saraswati Dynamics Pvt. Ltd., Roorkee	Shri Arjun Goel Shri Sanjeev Arya (Alt)	Y	N	Y	2/3
30	Tata Motors Limited, Pune	Shri Rohit Vaidya Shri Dayanand Billade (Alt)	N	N	Y	1/3
31	In Personal Capacity	Shri Nagesh V. Karanth	Y	Y	N	2/3
32	In Personal Capacity	Shri Uppuluri Sridhar	N	Y	Y	2/3
33	In Personal Capacity	Shri A. Rama Rao	Y	Y	Y	3/3

### COMPOSITION OF SEWING MACHINES SECTIONAL COMMITTEE, MED 29

Meeting	Date	Place
28 <sup>th</sup>	26-12-2023 to 27-12-2023	Hybrid Mode
29 <sup>th</sup>	17-05-2024	Physical Mode
30 <sup>th</sup>	21-08-2024	Hybrid Mode

SI No.	Organisation	Principal/ Alternate Member	28 <sup>th</sup>	29 <sup>th</sup>	30 <sup>th</sup>	Total
1.	R&D Centre for Bicycle and Sewing Machines, Ludhiana	Shri Rakesh Pathak/ Dr. Sanjeev Katoch (Chairperson)	Y	Y	Y	3/3
2.	Brother International (India) Private Limited, Mumbai	Shri Mathew Yohannan	Y	Y	Y	3/3
3.	C.R. Auluck & Sons Private Limited, Ludhiana	Shri Sunil Auluck Shri Kuljeet Singh (Alt)	Y	N	Y	2/3
4.	Directorate General of Quality Assurance (DGQA), Ministry of Defence, New Delhi	Shri R.V. Jain	N	N	Y	1/3
5.	G.D. Rupal Industries, Ludhiana	Shri Gurmukh Singh	Y	Y	Y	3/3
6.	Gee Tech Hooks, Ludhiana	Shri Manjeet Singh	N	Y	N	1/3
7.	Geminy Industrial Corporation, Ludhiana	Shri Vinay Dua Shri B.C. Pandey (Alt)	Y	N	Y	2/3
8.	Ludhiana Sewing Machine Association, Ludhiana	Shri Hardeep Singh Shri Rajvinder (Alt)	Y	Y	Y	3/3
9.	Makhan Sewing Machines, Ludhiana	Shri Dalbir Singh Dhiman	N	Y	Y	2/3
10.	Narindera & Company, Ludhiana	Shri S. Baldev Singh Shri Harinder Jit Singh (Alt)	Y	Y	Y	3/3

11.	Navrang Manufacturing Corporation, Ludhiana	Shri Dinesh Kapila Shri Sudesh Kapila (Alt)	N	Y	Y	2/3
12.	Northern India Textile Research Association, Ghaziabad	Shri Vikas Sharma Shri Vivek Agarwal (Alt)	N	N	Y	1/3
13.	Novel Sewing Machine Technologies	Shri Bharat Narayendas Parmar Shri Arjun Bharat Parmar (Alt)	Y	N	Y	2/3
14.	ORAA International, Ludhiana	Shri Ashish Gupta	Y	Y	Y	3/3
15.	Office of Development Commissioner (MSME), New Delhi	Shri Suvankar Santra Dr. Maitreyee Talapatra (Alt)	Y	Y	Y	3/3
16.	Ranew Engineering (India) Private Limited, Ludhiana	Shri Sanjeev Kumar Jain Shri Abhilash Jain (Alt)	Y	N	Y	2/3
17.	R&D Centre for Bicycle and Sewing Machines, Ludhiana	Shri Papinder Singh Shri Vishwas Mehta (Alt) Shri Manpreet Singh (Alt)	Y	Y	Y	3/3
18.	Singer India Limited, New Delhi	Shri Prashant Aggarwal Shri Atul Kumar Seth (Alt)	Y	Y	Y	3/3
19.	Swan Mechanical Works, Ludhiana	Shri Amarjeet Singh	Y	Y	Y	3/3
20.	United Sewing Machines and Parts Manufacturing Association, Ludhiana	Shri Dalbir Singh Dhiman	Y	Y	Y	3/3
21.	Usha International Limited, New Delhi	Shri Rup Lal Kangla Shri Pranay Srivastava (Alt)	Y	Y	Y	3/3
22.	Uttam Sewing Machine Company (Private) Limited, Jalandhar	Shri Jagdeep Rai Shri Manohar Lal (Alt)	Y	Y	Y	3/3
23.	Virindra Engineering Works, Ludhiana	Shri Amanpreet Singh Panesar Shri Swarn Singh (Alt)	Y	Y	N	2/3
24.	Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi	Shri M.A.U Khan	N	N	Y	1/3

### COMPOSITION OF GASKET AND PACKING SECTIONAL COMMITTEE, MED 30

No. of Meeting	Date	Place
22 <sup>nd</sup>	10-07-2023	Virtual
23 <sup>rd</sup>	12-03-2024	Virtual
24 <sup>th</sup>	17-09-2024	Virtual

Sl No.	Organization Represented	Principal Member/ Alternate Member	22 <sup>nd</sup>	23 <sup>rd</sup>	24 <sup>th</sup>	TOTAL
1.	Engineers India Ltd, New Delhi	Shri Udayan Chakravarty ( <i>Chairman</i> )	Y	Y	Y	3/3
2.	Bharat Corrub Industries, Vadodara	Shri B. M. Tolia Shri S. R. Desai (Alt)	N	N	N	0/3

3.	Bharat Heavy Electricals Ltd, Tiruchirapalli	Shri Subrata Ray Shri R Elayaraja (Alt-1) Shri S. Subba Rao (Alt-2)	Y	Y	Y	3/3
4.	Bharat Petroleum Corporation Ltd, Noida	Shri S. Manivannan	N	N	N	0/3
5.	Champion Jointings Pvt Ltd, Mumbai	Shri Farzad J. Palia Shri M. S. Dhandekar (Alt)	Y	Y	Y	3/3
6.	Crompton Greaves Ltd, Mumbai	Shri P.S. Ramachandran	N	N	N	0/3
7.	Defence Research And Development Organization, Research Centre Imarat, Hyderabad	Shri A.K. Mandal Shri I.S. Das (Alt)	N	N	N	0/3
8.	Department of Scientific and Industrial Research, New Delhi	Shri Purushottam Kumar	N	Y	Y	2/3
9.	Directorate of Steam Boilers, Mumbai	Shri G.D. Wankhede Shri S.S Solanke (Alt)	N	Y	Y	2/3
10.	Engineers India Limited, New Delhi	Shri Mohammed Ismaeel Shri G. Balaji (Alt-1) Ms. Sulakshna Nagnath Hundekari (Alt-2)	Y	Y	Y	3/3
11.	Ferolite Jointings (P) Ltd, Ghaziabad	Shri Akshay Sharma Shri Pradeep Kumar (Alt)	Y	Y	Y	3/3
12.	Gail (India) Ltd, New Delhi	Shri Nitin Nimje Shri Ashif Tadv (Alt-1) Shri Amresh Bedar (Alt-2)	N	N	N	0/3
13.	Hindustan Petroleum Corpn. Ltd, Visakhapatnam	Shri Sandipta Nath Shri Prabhudatta Padarbinda Behera (Alt)	Y	Y	Y	3/3
14.	I.G.P. Engineers Pvt Ltd Chennai	Shri G. Ganesan Shri S Sundar (Alt)	Y	Y	Y	3/3
15.	ICAR-National Institute Of Natural Fibre Engineering And Technology, Kolkata	Dr Sanjoy Debnath	Y	Y	Y	3/3
16.	Indian Sealing Association, Mumbai	Shri Rasiklal M. Doshi Shri Darshan A. Parekh (Alt)	Y	N	Y	2/3
17.	Indian Valve and Actuator Manufacturers Association (IVAMA), Coimbatore	Shri Vishal Wakchoure Shri R Muruganantham (Alt)	N	Y	Y	2/3

18.	L&T-Sargent & Lundy Limited, Vadodara	Shri Manish V. Sane Shri Pinkesh Patel (Alt)	Y	N	Y	2/3
19.	Mecon Limited, Ranchi	Shri Gurnek Singh Shri Sujoy Banerjee	N	N	N	0/3
20.	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	Shri Shaish Kumar M.Z. Khan (Alt)	N	N	N	0/3
21.	NTPC Ltd, Noida	Shri U.K. Mukhopadhyay Shri S. Chakraborty (Alt)	N	N	N	0/3
22.	Nu-Cork Products Pvt Ltd, Gurugram	Shri Swapan Kumar Datta	Y	Y	Y	3/3
23.	Ordnance Factory Board Jabalpur	Shri Rajnish Lodwal Shri M.K. Mishra (Alt)	N	N	N	0/3
24.	Projects and Development India Ltd. Ghaziabad	Shri Harish Kumar Shri Jitender Kumar Singh(Alt)	N	Y	Y	2/3
25.	RITES, New Delhi	Shri Pankaj Agrawal Shri Mukesh Sinha (Alt)	Y	Y	Y	3/3
26.	Safe Water Network, New Delhi	Shri Ravindra Sewak Smt. Poonam Sewak (Alt)	N	N	N	0/3
27.	Spareage Sealing Solution	Shri Shiva Shinde	N	N	N	0/3
28.	Super Waudite Jointings Pvt Ltd, Ahmedabad	Shri Pradeep J. Pandya Shri C.D. Gazdar (Alt)	N	N	N	0/3
29.	Superlite Jointings Pvt Ghaziabad	Shri Varun Agarwal Shri Pheru Singh (Alt)	N	Y	Y	2/3
30.	Tata Power Company Ltd Mumbai	Shri Dhiraj B. Kamath Shri V.V. Namjoshi (Alt)	N	N	N	0/3
31.	Uni Klinger Ltd, Pune	Shri Mahesh Avachat	Y	Y	Y	3/3

**COMPOSITION OF PHOTOGRAPHIC EQUIPMENT SECTIONAL COMMITTEE,  
MED 32**

Meeting	Date	Place
21 <sup>st</sup>	09-01-2024	Virtual
22 <sup>nd</sup>	20-06-2024	Virtual
23 <sup>rd</sup>	30-10-2024	Virtual

Sl No.	Organisation	Principal Member/Alternate Member	21 <sup>st</sup>	22 <sup>nd</sup>	23 <sup>rd</sup>	Total
9.	In Personal Capacity	Ms.Ranjana Mehrotra (Chairperson)	Y	Y	Y	3/3
10.	CSIR - National Physical Laboratory, New Delhi	Dr. Dilip Dhondiram Shivagan Shri Gaurav Gupta (Alt)	N	Y	Y	2/3



11.	CSIR - Central Building Research Institute, Roorkee	Shri Ravindra Singh Bisht	Y	Y	Y	3/3
12.	Central Institute of Educational Technology, New Delhi	Shri Rakesh Kumar	N	N	Y	1/3
13.	Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE)	Shri Ravibabu Mulaveesala	N	Y	Y	2/3
14.	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	Shri Anil Mehta Shri Srinivasan Moturi (Alt I) Shri Suhas Kulkarni (Alt II)	N	Y	Y	2/3
15.	Indian Cellular and Electronics Association, New Delhi	Shri Vivek Vats Shri Vineet Sharma (Alt)	N	N	Y	1/3
16.	MKU Limited, Kanpur	Shri Vaibhav Gupta Shri Madhurendu Bajpai (Alt)	NA	NA	Y	1/1
17.	Ministry of Electronics and Information Technology, New Delhi	Dr. Bharat Kumar Yadav	N	Y	Y	2/3
18.	Ministry of Information and Broadcasting, New Delhi	Director (Photo Div) Deputy Director (Photo Div) (Alt I) Shri Asish Maitra (Alt II)	Y	N	Y	2/3
19.	National Forensic Sciences University, Gandhinagar	Shri R.L Sharma Dr. Richa Rohtangi	N	Y	Y	2/3
20.	SS Automation Solutions Private Limited	Ms. Vanita Arora Mr. Suresh M S	Y	Y	Y	3/3

**COMPOSITION OF UTENSILS, CUTLERY AND DOMESTIC HARDWARE SECTIONAL COMMITTEE, MED 33**

Meeting No.	Date	Place
32 <sup>nd</sup>	16-02-2024	Physical
33 <sup>rd</sup>	27-05-2024	Physical
34 <sup>th</sup>	02-09-2024	Physical

Sl No	Organization Represented	Principal/Alternate Member	32 <sup>nd</sup>	33 <sup>rd</sup>	34 <sup>th</sup>	Total
1.	In Personal Capacity	Shri G. Shanmuganathan (Chairperson)	N	Y	Y	2/3
2.	All India Stainless Steel Industries Association (Aissai), Mumbai	Shri Shailesh Shah Shri Jagesh Jain (Alt)	Y	Y	Y	3/3
3.	Anna Aluminium Ltd, Kochi	Shri K Chandrashekr Pillai Shri V. Thulasidharan (Alt)	N	Y	N	1/3
4.	Autopress India Pvt. Ltd. Pune	SHRI RAJIV AGARWAL SHRI KUSH AGARWAL (ALT) SHRI DHRUV AGARWAL (ALT)	Y	N	Y	2/3
5.	Avon Appliances Pvt. Ltd. Ankleshwar	SHRI ASHWIN VORA	N/A	N/A	Y	1/1
6.	Butterfly Gandhimati Appliances Ltd, Chennai	SHRI S. R. SIVAKUMAR SHRI KUMAR A (ALT)	Y	Y	Y	3/3

		SHRI RAMASUBRAMANIAN NARASIMMAN (YP)				
7.	Central Public Works Department, New Delhi	Shri Prem Mohan Shri Dinesh K Ujjainia (Alt)	N/A	N	N	0/2
8.	Cello World Ltd. Mumbai	SHRI PRADEEP G. SHRI MUKESH KOTHARI	N/A	N/A	Y	1/1
9.	Consumer Voice, New Delhi	Shri B.K. Mukhopadhyay  Shri Mau Khan (Alt)	N	N	N	0/3
10.	Delhi Test House , New Delhi	Shri Dinesh Goel Shri Rohit Goel (Alt)	Y	Y	Y	3/3
11.	D.P Garg & Co Pvt Ltd.	SHRI S. M. GARG SHRI K.S. ARYA	Y	Y	Y	3/3
12.	Directorate General Quality Assurance, Ministry Of Defence, Kanpur	Shri Amiya Kuamr Shri S K Shaw (Alt)	N	N	Y	1/3
13.	Federation Of Hardware Mfg & Traders Welfare Association , Gurgaon	Shri Takshay Bansal Shri Naveen Handa (Alt) Shri Shri Vikas Narwal (Alt)	Y	Y	Y	3/3
14.	Federation Of All India Aluminium Utensils Manufacturers, Rourkela	Shri Bharat Garg Shri Tarun Kumar Goyal (Alt)	Y	Y	Y	3/3
15.	Godrej & Boyce Mfg Co Ltd , Mumbai	Shri Kshitij R. Gaikar Shri Deodatta Joshi (Alt)	Y	Y	Y	3/3
16.	Hamilton Housewares Pvt Ltd, Mumbai	Shri Sanjay Moreshwar Mhatre Shri Induprakash Singh (Alt) Shri Vikas Surendra Kumar Bhatia (Alt)	Y	Y	Y	3/3
17.	Hawkins Cookers Ltd , Thane	Shri B. S. Sethi Shri Ravindra Mali (Alt) Shri Prabha Shankar (Yp)	Y	Y	Y	3/3
18.	Hindalco Industries Ltd , Mumbai	Shri Devesh Kumar Shri Atul Gupta (Alt)	Y	Y	N	2/3
19.	In Personal Capacity	SHRI B VISWANATH SHENOY	Y	Y	Y	3/3
20.	Indian Stainless Steel Development Association (Issda), Gurugram	Shri Rohit Kumar Shri Akshaya Kumar Sharma (Alt)	Y	Y	N	2/3
21.	Jindal Stainless Limited, Hisar	Shri Biswabasu Roy Ms. Nisha Goel (Alt) Shri V. Narasimha Rao Komisetti (Yp)	Y	Y	Y	3/3
22.	Nanobot Housewares Solutions Private Limited, Jodhpur	Shri Vikas Jain Shri Manoj Jain (Alt) Shri Shantanu Rajpurohit (Yp)	Y	Y	Y	3/3
23.	Office Of Development Commissioner (Msme), New Delhi	SHRI SUVANKAR SANTRA	N	N	N	0/3
24.	Pritam International, Baddi	Shri Rahul Khera Shri Rohit Khera (Alt)	Y	Y	Y	3/3
25.	Royal Kitchen Appliances Pvt. Ltd , Sonapat	SHRI SURESH AGARWAL	N	Y	Y	2/3
26.	Sat Rattan Engg Works , New Delhi	Shri G.L. Khera	Y	Y	Y	3/3

27.	Sriram Institute For Industrial Research, New Delhi	Shri Alok Kumar Shri Aneesh Kumar (Alt) Shri Puneet Kapoor (Alt)	Y	Y	Y	3/3
28.	Steel Authority Of India	Shri R. Jaffarullah Shri Arul Ram Murugesan (Alt)	Y	Y	Y	3/3
29.	Sivanesan Company, Chennai	Shri N. Manikandan Raja Ms. K S Nethra Manjari (Alt)	Y	Y	N	2/3
30.	Ttk Prestige Ltd , Bangalore	Shri Anto Vimal Anand Shri Rajasekaran S. (Alt)	Y	Y	Y	3/3

**METHODS AND EQUIPMENTS FOR UNDERGROUND GASIFICATION OF LIGNITE AND COAL BED METHANE SECTIONAL COMMITTEE, MED 37**

Meeting No.	Date	Place
12 <sup>th</sup>	10-08-2023	Virtual
13 <sup>th</sup>	30-05-2024	Virtual
14 <sup>th</sup>	10-09-2024	Virtual

Sl. No.	Organization Represented	Principal /Alternative	12 <sup>th</sup>	13 <sup>th</sup>	14 <sup>th</sup>	Total
1.	Oil and Natural Gas	Uday Paswan ( <i>Chairman</i> )	Y	N	Y	2/3
2.	BHEL, New Delhi	Tirupathi Naidu Chintala	N	Y	Y	2/3
3.	Bharat Heavy Electricals Limited, Project Engineering Management, Noida	Shri Rajesh Ranjan (Alt) Shri Saumen Kumar Bhaumik (Alt) Shri Pradeep Kumar Sharma (Alt)	Y	Y	N	2/3
4.	CSIR - Central Institute for Mining and Fuel Research, Dhanbad	Dr. Debductta Mohanty Shri Jaywardhan Kumar (Alt)	N	Y	Y	2/3
5..	CSIR - Central Mechanical Engineering Research Institute, Durgapur	Dr. Malay Kumar Karmakar Dr. Chanchal Loha (Alt)	Y	Y	Y	3/3
6.	Central Electricity Authority, New Delhi	Shri Sunit Gupta Shri Asif Iqbal (Alt)	Y	Y	Y	3/3
7.	Directorate General of Hydrocarbons (DGH)	Ms. Aarti Gupta Shri Trilok Nath (Alt)	Y	N	N	1/3
8..	Directorate General Of Mines Safety, Dhanbad (DGMS)	Shri Saifullah Ansari Shri A Rajeshwar Rao (Alt)	Y	Y	N	2/3

9..	Essar Oil and Gas Exploration and Production Limited, Durgapur	Shri Vineet Singhal Shri Vikram A. Goday (Alt)	Y	N	Y	3/3
10	Gail India Limited	Shri Rajesh Bagaria Shri A. K. Porwal (Alt)	Y	Y	N	2/3
11	Great Eastern Energy Corporation Limited (GEECL)	Shri Anoop Gupta Shri Priyaranjan Patra (Alt)	Y	N	N	1/3
12	ISM, DHANBAD (IIT-ISM)	Prof. R.M. Bhattacharjee Asst. Professor D.P. Mishra (Alt)	N	N	N	0/3
13	Oil and Natural Gas Corporation Limited, New Delhi	Shri A K Paswan Shri Shakeel Ahmed (Alt)	Y	N	Y	2/3
14	In personal Capacity	Shri R K Sharma	N	N	N	0/3
15	In personal Capacity	Shri Rudra Pratap Singh	N	N	N	0/3

**COMPOSITION OF MECHANICAL EQUIPMENT USED IN REFUELING STATIONS  
FOR PETROLEUM AND GASEOUS FUEL SECTIONAL COMMITTEE, MED 38**

<b>Meeting</b>	<b>Date</b>	<b>Place</b>
11th	26-09-2023	Virtual
12th	27-06-2024	Virtual
13th	26-09-2024	Virtual

Sl No.	Organization Represented	Principal Member/Alternate Member	11 <sup>th</sup>	12 <sup>th</sup>	13 <sup>th</sup>	Total
2.	Petroleum & Explosives Safety Organisation, Nagpur	Shri P. Kumar ( <i>Chairperson</i> )	Y	N	Y	2/3
3.	Bharat Petroleum Corporation Limited, Mumbai	Shri Jojoy Sebastian Shri CV Ravikumar (Alt)	Y	Y	Y	3/3
4.	Compac Industries India Ltd, New Delhi	Shri Varun Sethi Shri Surendra Kaul (Alt)	Y	Y	Y	3/3
5.	Dover India Pvt Limited (OPW Division), Thane	Shri Uttam Save Shri Ajay Deshpande (Alt 1) Shri Sanjay Khanna (Alt 2) Shri Nikhil Jadhav ( <i>Representative</i> )	Y	Y	Y	3/3
6.	Gilbarco Veeder-Root India Pvt. Ltd, Mumbai	Shri Rajiv Shankar Pathiyil Mrs Sushma Prabhudesai (Alt) Shri Sandeep Salvi ( <i>Representative</i> ) Shri Sujit Koli ( <i>Representative</i> )	N	Y	Y	2/3
7.	Gujarat Gas Company Ltd, Ahmedabad	Shri Dharmesh Sailor Shri Ravi Kumar Ravipalli (Alt)	Y	Y	Y	3/3
8.	Hindustan Petroleum Corporation Ltd, Mumbai	Shri D. H. V. Anand Shri Atul Goel (Alt)	Y	Y	Y	3/3
9.	Indian Oil Corporation (R&D Centre), Faridabad	Dr Umish Srivastava Shri Sachin Chugh (Alt 1) Shri Amit Katiyar (Alt 2)	Y	Y	N	2/3
10.	Inox India Limited, Vadodara	Shri Deepak V. Acharya Shri Nitin Jansari (Alt 1) Shri Anup Shapeti (Alt 2)	Y	Y	Y	3/3
11.	Intertek India Pvt Ltd, Gurugram	Shri Rakesh Chaurasia	Y	Y	Y	3/3
12.	Karandikar Laboratories Pvt Ltd, Mumbai	Shri Ajit Vasudev Karandikar Shri Ravindra Keshav Paranjpe (Alt)	Y	Y	Y	3/3
13.	Mahanagar Gas Limited, Mumbai	Shri Bhattiprolu Ram Sudheer Shri Yashpal Soni (Alt)	Y	Y	N	2/3
14.	Nayara Energy Ltd (Formerly Essar Oil Ltd), Mumbai	Shri Ajai Kumar Gupta Shri Karshan N. Kandoria (Alt 1) Shri Kamlesh Domadiya (Alt 2)	Y	N	N	1/3
	Petroleum and Explosives Safety Organisation, Nagpur	Shri V. B. Borgaonkar Shri Srinivasa Rao Keta (Alt)	Y	N	Y	2/3
15.	Petronet LNG Limited, New Delhi	Shri Yogananda Reddy Shri Anil Kumar Patel (Alt)	N	N	N	0/3
16.	Reliance India Limited, Mumbai	Shri Prerak Shah Shri Sanjay Pandita (Alt) Shri Pramod Sahu ( <i>Representative</i> )	N	Y	N	1/3
17.	Tulsa Gas Technologies India Private Limited, New Delhi	Shri Ashok Anand	Y	Y	N	2/3

**COMPOSITION OF ENERGY MANAGEMENT SECTIONAL COMMITTEE, MED 39**

Meeting	Date	Place
21st	08-12-2023	Virtual
22nd	30-05-2024	Virtual
23rd	10-09-2024	Hybrid

Sl No.	Organization Represented	Principal Member/Alternate Member	21 <sup>st</sup>	22 <sup>nd</sup>	23 <sup>rd</sup>	Total
2.	In Personal Capacity	Shri S. R. Lohokare <i>(Chairperson)</i>	Y	Y	Y	3/3
3.	Bharat Heavy Electrical Limited, New Delhi	Shri Saumen Kumar Bhaumik Shri Rajesh Ranjan <i>(Alt-1)</i> Shri Mohit Sharma <i>(Alt-2)</i>	Y	Y	Y	3/3
4.	Bureau of Energy Efficiency, New Delhi	Ms Pravatanalini Samal Shri Kamran Shaikh <i>(Alt-1)</i> Dr Alka Bharti <i>(Alt-2)</i> Shri Bibek Ranjan Patnaik <i>(Representative)</i>	Y	Y	Y	3/3
5.	Cement Manufacturers Association, Noida	Shri Raju Goyal Shri Vivek Kumar Mishra <i>(Alt-1)</i> Shri Vaibhav Gupta <i>(Alt-2)</i>	N	Y	N	1/3
6.	Central Electricity Authority, New Delhi	Shri Shantanu Biswas Shri K. K. Sharma <i>(Alt)</i> Ms Rita <i>(Representative)</i>	N	N	Y	1/3
7.	Energy Management Centre, Thiruvananthapuram	Shri R. Hari Kumar Shri Johnson Daniel <i>(Alt)</i>	Y	Y	Y	3/3
8.	International Copper Promotion Council (India), Mumbai	Shri Manas Kundu Shri Jyotish Pande <i>(Alt)</i>	Y	Y	Y	3/3
9.	Lloyd Insulations (India) Limited, Mumbai	Shri K. K. Mitra Shri Mohit Khanna <i>(Alt)</i> Ms. Sonal Gupta <i>(Representative)</i>	Y	Y	Y	3/3
10.	NTPC Ltd, Noida	Shri A. P. Samal Shri Bibek Kumar <i>(Alt)</i>	Y	Y	Y	3/3
11.	Ordnance Factory Bhandara, Bhandara	Dr Onkar S. Mondhe Shri Nishith Dwivedi <i>(Alt)</i>	Y	Y	Y	3/3
12.	Reliance Industries Limited, Navi Mumbai	Ms Gauri B. Bholay Shri Nitin Mehta <i>(Alt)</i>	N	Y	Y	2/3
13.	RR Kabel, Silvassa	Shri Rajeev Bhargava	N	Y	N	1/3
14.	Rifle Factory, Ministry of Defence, Ishapore	Shri Subhrendu Kar	Y	Y	N	2/3
15.	Schneider Electric India Pvt Ltd, Gurgaon	Shri Rohit Chashta	N	N	N	<b>0/3</b>
16.	Steel Authority of India Limited (SAIL), New Delhi	Shri Gulshan Kumar Shri A. M. Danny <i>(Alt)</i>	Y	Y	Y	3/3
17.	Tata Steel Limited, Jamshedpur	Shri Shibojoyoti Dutta	N	Y	Y	2/3
18.	The Fertilizer Association of India, New Delhi	Shri Manish Goswami	N	Y	Y	2/3

**COMPOSITION OF SAFETY OF MACHINERY SECTIONAL COMMITTEE, MED 40**

Meeting	Date	Place
9th	06-11-2023	WebEx Online
10th	29-05-2024	WebEx Online
11th	23-09-2024	WebEx Online

Sl No.	Organization Represented	Principal Member/Alternate Member	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	Total
	Ministry of Heavy Industries and Public Enterprises, MHI, New Delhi	Shri Vikas Dogra ( <i>Chairperson</i> )	N	Y	Y	2/3
	Agriculture Machinery Manufacturers Association, Pune	Shri Rajkumar Arumugam Shri Kunwar Sahib Singh ( <i>Alt</i> )	Y	Y	N	2/3
	Association of Indian Forging Industry (AIFI), Pune	Shri S. Murlishankar Shri R. Sivaprasad Reddy ( <i>Alt</i> )	Y	N	N	1/3
	Automotive Research Association of India (ARAI), Pune	Shri Vyanktesh S. Khairatkar Shri Moqtik A. Bawase ( <i>Alt</i> )	NA	NA	Y	1/1
	BEML Limited, Kolar	Shri Somegowda K. T. Shri Elavarasan A. ( <i>Alt</i> ) Shri Vijay M. ( <i>Alt</i> )	Y	Y	Y	3/3
	Bharat Heavy Electrical Limited, New Delhi	Shri E. Thirumavlan Dr Kuruva Gopanna ( <i>Alt</i> )	Y	N	Y	2/3
	Central Manufacturing Technology Institute (CMTI), Bengaluru	Shri Gopi Krishna S. Shri Anil Kumar K. ( <i>Alt</i> )	NA	NA	Y	1/1
	Cummins India Limited, Pune	Shri Riyazahmad Abbasalli Kazi Shri Ravi Sonawala ( <i>Alt I</i> ) Shri Santoshkumar S. Rajguru ( <i>Alt II</i> )	NA	NA	Y	1/1
	Directorate General Factory Advice Service and Labour Institutes, Mumbai	Shri Rajkrishna M. R. Shri N. Varadharajan ( <i>Alt</i> )	Y	Y	Y	3/3
	Directorate General of Mines Safety, Dhanbad	Shri D. B. Naik Shri Vijay Yadaorao Barapatre ( <i>Alt</i> )	Y	N	Y	2/3
	Directorate of Factories, Telangana State, Hyderabad	Shri Y. Mohan Babu Shri Kota Sridhar Rao ( <i>Alt I</i> ) Smt K.V. Sreedevi ( <i>Alt II</i> )	Y	Y	Y	3/3
	ITC Limited, Kolkata	Shri V. Ravindranath Shri Mudit Maheshwari ( <i>Alt I</i> ) Shri Anant Maheshwari ( <i>Alt II</i> )	Y	Y	Y	3/3
	Indian Institute of Technology Gandhinagar, Gandhinagar	Shri Vinod Narayanan Shri Atul Bhargav ( <i>Alt</i> )	Y	N	N	1/3
	Indian Institute of Technology Madras, Chennai	Dr Somashekhar S. Hiremath Dr N. Arunachalam ( <i>Alt</i> )	Y	N	N	1/3
	Indian Machine Tools Manufacturers Association, Bengaluru	Shri N. Madhan Kumar	Y	N	Y	2/3
	Indian Printing Packaging and Allied Machinery Manufacturers Association, Noida	Shri Prashant Vats	Y	Y	Y	3/3

.	Macsafe India Solutions Private	Shri Samir Kanchan Shri Siddesh Dalal ( <i>Alt</i> ) Shri Mayank Choudhary ( <i>Representative</i> )	Y	Y	N	2/3
.	Ministry of Heavy Industries and Public Enterprises, Department of Heavy Industry, New Delhi	Shri Shubhankit ( <i>Representative</i> ) Shri Shahid Qayoom ( <i>Representative</i> ) Shri Abhinav Kumar ( <i>Representative</i> )	N	Y	Y	2/3
.	National Institute of Technology, Kurukshetra	Shri Manoj Kumar Gupta	NA	NA	Y	1/1
.	Pilz India Private Limited, Pune	Shri Abhijit Kulkarni Shri Shailesh Nadnurwar ( <i>Alt I</i> ) Shri Dhiraj Podutwar ( <i>Alt II</i> )	NA	NA	Y	1/1
.	Plastics Machinery Manufacturers Association of India (PMMAI), New Delhi	Shri. Vinay Girdhar Bansod Shri Pradip Vanwani ( <i>Alt I</i> ) Dr Amit Kumar Patel ( <i>Alt II</i> )	Y	N	Y	2/3
.	Prazamana Safetic Limited Liability Partnership, Pune	Shri Biswa Bhushan Rath Shri Bikram Nag ( <i>Alt I</i> ) Shri Ankit Kumar ( <i>Alt II</i> )	NA	NA	Y	1/1
.	Research Designs and Standards Organization (RDSO), Lucknow	Shri Nitin Mehrotra Shri Vijay Goel ( <i>Representative</i> )	Y	Y	N	2/3
.	Rockwell Automation India Private Limited, Noida	Shri Prodip Kumar Sarkar Shri Abhishek Sangavkar ( <i>Alt</i> )	NA	NA	Y	1/1
.	Ross Controls India Private Limited	Shri Yashpal Setiya Shri Sathiya Mohan S. ( <i>Alt</i> )	Y	Y	Y	3/3
.	Schmersal India Private Limited, Pune	Shri Girish Alawe Shri Kunal Sharma ( <i>Alt I</i> ) Shri Gaurav Narayan Gore ( <i>Alt II</i> )	Y	N	Y	2/3
.	Sick India Private Limited, Mumbai	Shri Samir Desai Shri Jayesh Jani ( <i>Alt</i> )	NA	NA	Y	1/1
.	Troax Safety Systems India Private Limited, Bengaluru	Shri A. S. Vidyasagar Ganesh	Y	N	N	1/3
.	V-SAME Engineering and Training Solutions, , Pune	Shri Shacheendra Bapat	NA	NA	Y	1/1
.	In Personal Capacity	Shri Dinesh Keshav Saner	NA	NA	Y	1/1



### ANNEX 3

(Item 6.1)

#### LIST ISO/IEC COMMITTEE WHERE INDIA (BIS) IS A P/O MEMBER AND MED IS THE CO-ORDINATING DEPARTMENT

MED Committee	ISO TC/SC Committee	Title	Participating Status
MED 01	TC 11	Boilers and Pressure Vessels	P member
MED 03	ISO/TC 142	Cleaning equipment for air and other gases	P-Member
MED 03	ISO/TC 86	Refrigeration and air conditioning	P-Member
MED 03	ISO/TC 86/SC 1	Safety and environmental requirements for refrigerating systems	P-Member
MED 03	ISO/TC 86/SC 4	Testing and rating of refrigerant compressors	P-Member
MED 03	ISO/TC 86/SC 6	Testing and rating of air- conditioners and heat pumps	P-Member
MED 03	ISO/TC 86/SC 7	Testing and rating of commercial refrigerated display cabinets	P-Member
MED 03	ISO/TC 86/SC 8	Refrigerants and refrigeration lubricants	P-Member
MED 04	ISO/TC 180	Solar energy	P-Member
MED 04	ISO/TC 180/SC 1	Climate - Measurement and data	P-Member
MED 04	ISO/TC 180/ SC 4	Systems - Thermal performance, reliability and durability	P-Member
MED 04	ISO/TC 285	Clean cookstoves and clean cooking solutions	P-Member
MED 06	TC 101	Continuous Mechanical Handling Equipment	O-Member
MED 06	ISO/TC 254	Safety of amusement rides and amusement devices	P-Member
MED 07	ISO/TC 110	Industrial trucks	P-Member
MED 07	ISO/TC 127	Earth-moving machinery	P-Member
MED 07	ISO/TC 127/SC 1	Test methods relating to safety and machine performance	P-Member
MED 07	ISO/TC 127/SC 2	Safety, ergonomics and general requirements	P-Member
MED 07	ISO/TC 127/SC 3	Machine characteristics, electrical and electronic systems, operation and maintenance	P-Member
MED 07	ISO/TC 127/SC 4	Terminology, commercial nomenclature, classification and ratings	P-Member
MED 08	TC 82	Mining	P-Member
MED 10	TC 105	Steel wire ropes	O-Member
MED 14	TC 111	Round Steel Link Chains, Chain Slings, Components and Accessories	P-Member
MED 14	SC 1	Chain and chain sling	P-Member
MED 14	SC 3	Components and accessories	P-Member
MED 14	ISO/TC 96	Cranes	P-Member
MED 14	ISO/TC 96/SC 10	Design principles and requirements	P-Member
MED 14	ISO/TC 96/SC 2	Terminology	P-Member
MED 14	ISO/TC 96/SC 3	Selection of ropes	P-Member
MED 14	ISO/TC 96/SC 4	Test methods	P-Member
MED 14	ISO/TC 96/SC 5	Use, operation and maintenance	P-Member
MED 14	ISO/TC 96/SC 6	Mobile cranes	P-Member
MED 14	ISO/TC 96/SC 7	Tower cranes	P-Member
MED 14	ISO/TC 96/SC 8	Jib cranes	P-Member
MED 14	ISO/TC 96/SC 9	Bridge and gantry cranes	P-Member
MED 16	ISO/TC 58	Gas cylinders	P-Member
MED 16	ISO/TC 58/SC 2	Cylinder fittings	P-Member

<b>MED Committee</b>	<b>ISO TC/SC Committee</b>	<b>Title</b>	<b>Participating Status</b>
MED 16	ISO/TC 58/SC 3	Cylinder design	P-Member
MED 16	ISO/TC 58/SC 4	Operational requirements for gas cylinders	P-Member
MED 17	ISO/TC 112	Vacuum technology	P-Member
MED 17	ISO/TC 153	Valves	P-Member
MED 17	ISO/TC 270	Plastics and rubber machines	P-Member
MED 18	ISO/TC 195	Building construction machinery and equipment	P-Member
MED 18	ISO/TC 195/SC 1	Machinery and equipment for concrete work	P-Member
MED 18	ISO/TC 195/SC 2	Road operation machinery and associated equipment	P-Member
MED 18	ISO/TC 195/SC 3	Drilling and foundation machinery and equipmen	P-Member
MED 20	ISO/TC 115	Pumps	P-Member
MED 20	SC 1	Dimensions and Technical Specifications of pump	P-Member
MED 20	SC 2	Methods of Measurement and Testing	P-Member
MED 20	SC 3	Installation and Special Application	P-Member
MED 22	ISO/TC 118	Compressors and pneumatic tools, machines and equipment	P-Member
MED 22	SC 1	Process compressors	P-Member
MED 22	SC 4	Compressed air treatment technology	P-Member
MED 22	SC 6	Air compressors and compressed air systems	P-Member
MED 22	IEC TC 4	Hydraulic turbines	P-Member
MED 22	IEC TC 5	Steam turbines	P-Member
MED 22	TC 192	Gas Turbinesq	P-Member
MED 24	TC 332	Security equipment for financial institutions and commercial organizations	P (Committee Secretariat)
MED 26	TC 109	Oil Burners & Associated Equipment	O-Member
MED 28	ISO/TC 108	Mechanical vibration, shock and condition monitoring	P-Member
MED 28	ISO/TC 108/SC 2	Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures	P-Member
MED 28	ISO/TC 108/SC 4	Human exposure to mechanical vibration and shock	P-Member
MED 28	ISO/TC 108/SC 5	Condition monitoring and diagnostics of machine systems	P-Member
MED 28	ISO/TC 108/SC 6	Vibration and shock generating systems	P-Member
MED 29	TC 148	sewing machines	O-member
MED 32	TC 36	Cinematography	P-Member
MED 32	TC 42	Photography	P-Member
MED 33	TC 186	Cutlery and table and decorative metal hollow-ware	P-Member
MED 37	ISO/TC 263	Coal Bed Methane (CBM)	P-Member
MED 38	ISO/TC 340	Natural gas fuelling stations	P-Member
MED 38	ISO/TC 67	Oil and gas industries including lower carbon energy	O-Member
MED 39	ISO/TC 301	Energy management and energy savings	P-Member
MED 39	ISO/TC 301/WG 1	Energy management	P-Member
MED 40	ISO/TC 199	Safety of machinery	P-Member

<b>MED</b>	<b>IEC TC/SC</b>	<b>Title</b>	<b>Participating Status</b>
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Committee	Committee		
MED 03	TC 61/SC 61C	Safety of refrigeration appliances for household and commercial use	P-Member
MED 03	TC 61/SC 61D	Appliances for air-conditioning for household and similar purposes	P-Member
MED 03	TC 59/SC 59M	Performance of electrical household and similar cooling and freezing appliances	P-Member

**NOTE - Legend: P - Participating member O - Observer member**

#### ANNEX 4

(Item 8 and Annex 6)

### LIST OF INDIAN STANDARDS NUMBER AND VALID LICENCES COVERED UNDER CERTIFICATION

#### (A) Refrigeration and Air Conditioning (MED 03)

IS NO.	PRODUCT	NO. OF LICENCES
IS 1391 (Part 1) : 2023	Room Air Conditioners Specification Part 1 Unitary Air Conditioners (Fourth Revision)	10
IS 1391 (Part 2) : 2023	Room Air Conditioners Specification Part 2 Split Air Conditioners (Fourth Revision)	49
IS 17550 (Part 1) : 2021	Household Refrigerating Appliances Characteristics and Test Methods Part 1 General Requirements	21
IS 1475 : 2024	Self - Contained drinking water coolers - Specification: Part 1 energy consumption and performance (Third Revision)	1
IS 7872 : 2020	Deep Freezers - Specification (Second Revision)	13
IS 8148 : 2018	Ducted and package air - Conditioners - Specification (Second Revision)	12
IS 10617 : 2018	Hermetic compressors - Specification (Second Revision)	08
IS 11329: 2018	Finned type heat exchanger for room air conditioner (First Revision)	51
IS 17570 (Part 1) : 2021 ISO 16890-1 : 2016	Air Filters for General Ventilation Part 1 Technical Specifications, Requirements and Classification System Based Upon Particulate Matter Efficiency ( ePM )	4
IS 17681 : 2022	Specification for Bottled water dispensers	7
IS 3315 : 2024	Direct Evaporative Air Cooler - Specification (Fourth Revision)	2
<b>Total</b>		<b>178</b>

#### (B) Renewable Energy Sources (MED 04)

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO OF LICENCES</b>
IS 12933 : Part 1 : 2003	Solar Flat Plate Collector - Part 1 : Requirements	24
IS 13152 : Part 1 : 2013	Portable Solid Bio-Mass Cook stove (Chulha)	1
IS 16544 : 2016	All glass evacuated tubes solar water heating system	14
<b>Total</b>		<b>39</b>

**(C) Continuous Bulk Conveying, Elevating, Hoisting Aerial Ropeways and Related Equipment (MED 06)**

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO OF LICENCES</b>
IS 8598 : 2019	Idler and Idler Sets for Belt Conveyor — Specification (Second Revision)	4
<b>Total</b>		<b>4</b>

**(D) Mining Techniques and Equipment (MED 08)**

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO OF LICENCES</b>
IS 7577 : 2020	Gas Testing Flame Safety Lamps	1
<b>Total</b>		<b>1</b>

**(E) Wire Ropes and Wire Products (MED 10)**

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO OF LICENCES</b>
IS 278 : 2009	Galvanized Steel Barbed Wire for Fencing-Specification	36
IS 1855 : 2022	Stranded Steel Wire Ropes for Winding and Man-Riding Haulages in Mines	2
IS 1856 : 2021	Steel Wire Ropes for Haulage Purposes	4
IS 2141 : 2000	Hot Dip Galvanized Stay Strand	32
IS 2266 : 2019	Steel Wire Ropes for General Engineering Purposes	21
IS 2365 : 2018	Steel Wire Suspension Ropes for Lifts, Elevators and Hoists	7
IS 2581 : 2002	Round Strand Galvanized Steel Wire Ropes for Shipping Purposes	2

IS 2721 : 2003	Galvanized Steel Chain Link Fence Fabric	18
IS 3623 : 1978	Guide and Rubbing Ropes	2
IS 3626 : 2001	Locked Coil Winding Ropes	1
IS 4521 : 2001	Wire Ropes Used in Oil Wells and Oil Well Drilling	6
IS 4948 : 2020	Welded Steel Wire Fabric For General Use	1
IS 9282 : 2021	Wire Ropes and Strands for Suspension Bridges	3
IS 10891 : Part 1 : 2001	Steel Wire Ropes for Aerial Ropeways - Part 1 : Haulage Ropes	2
IS 12776 : 2002	Galvanized Strand For Earthing	18
IS 16014 : 2018	Mechanically woven, double -twisted, hexagonal Wire Mesh Gabions, Revet Mattresses and Rock fall Netting( Galvanized steel wire or Galvanized steel wore with PVC coating) - Specification	10
<b>Total</b>		<b>165</b>

**(F) Cranes, Lifting Chains and Related Equipment (MED 14)**

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO OF LICENCES</b>
IS 3832 : 2005	Hand-Operated Chain Pulley Blocks	14
IS 5604 : 1984	Specification for Hand-operated Universal Gearless Pulling and Lifting Machines	3
<b>Total</b>		<b>17</b>

**(G) Gas Cylinders (MED 16)**

<b>IS NO.</b>	<b>PRODUCT</b>	<b>NO. OF LICENCES</b>
IS 3196 : Part 1 : 2013	Welded Low Carbon Steel Cylinders Exceeding 5 Litre Water Capacity for Low Pressure Liquefiable Gases - Part 1 : Cylinders for liquefied Petroleum Gases (LPG)	189
IS 3196 : Part 2 : 2006	Welded Low Carbon Steel Cylinders Exceeding 5 Litre Water Capacity for Low Pressure Liquefiable Gases - Part 2 : Cylinders for Liquefiable Non-Toxic Gases Other Than LPG	4
IS 3196 : Part 4 : 2001	Welded Low Carbon Steel Cylinders Exceeding 5 Litre Water Capacity for Low Pressure Liquefiable Gases - Part 4 : Cylinders for Toxic and Corrosive Gases (Amalgamation of IS 7680,7681 and 7682)	4
IS 3224 : 2021	Valve for compressed gas cylinders excluding liquefied petroleum gas (LPG) cylinders - Specification (fourth revision)	23

IS 3745 : 2006	Yoke Type Valve Connection for Small Medical Gas Cylinders	3
IS 7142 : 1995	Welded low carbon steel cylinders for low pressure liquefiable gases not exceeding 5 litre water capacity - Specification	2
IS 7285 : Part 1 : 2018	Refillable Seamless Steel Gas Cylinders - Part 1 : Normalized Steel Cylinders	7
IS 7285 : Part 2 : 2017	Refillable Seamless Steel Gas Cylinders - Part 2 : Quenched and Tempered Steel Cylinders with Tensile Strength Less Than 1 100 MPa (112 kgf/mm <sup>2</sup> )	11
IS 7312 : 2018	Welded and seamless steel dissolved acetylene gas cylinders	2
IS 8471 : 2003	Acetylene Generators - Requirements (Amalgamation of IS 8471 (Part 1 to 5))	4
IS 8737 : 2017	Valve fittings for use with liquefied petroleum gas (LPG) cylinders of more than 5 litre water capacity	44
IS 9798 : 2013	Low Pressure Regulators for Use with Liquefied Petroleum Gas (LPG) Mixtures	72
IS 12586 : 2021	Brazed Low Carbon Steel Gas Cylinders Not Exceeding 13 Litre Water Capacity	1
IS 13258 : 2014	Welded Low Carbon Steel Cylinders Exceeding 5 Litre Water Capacity for Low Pressure Liquefiable Gas - Code of Practice for Inspection and Reconditioning of Used LPG Cylinders	51
IS 14899 : 2014	Liquefied Petroleum Gas (LPG) Containers for Automotive Use - Specification	7
IS 15100 : 2018	Multifunction Valve Assembly for Permanently Fixed Liquefied Petroleum Gas (LPG) Containers for Automotive Use	3
IS 15490 : 2017	Cylinders for On-Board Storage of Compressed Natural Gas As a Fuel for Automotive Vehicles	12
IS 15660 : 2017	Refillable transportable seamless aluminium alloy gas cylinders	2
IS 16484 : 2017	Liquid Off - Take Valve Fitting to Gas Cylinders or Tanks (Mobile or Static) for Liquid Petroleum Gas (LPG) - Specification	5
IS 12300 : 1988	Valve fittings for refrigerant cylinders - Specification	1
IS 11006 : 2011	Flash back arrestor (Flame Arrestor) - Specification (First Revision)	3
IS 16988 : 2018	Compressed natural gas cylinder valve integrated with solenoid operation (Remotely Controlled) for automotive use - Specification	2
IS 7302 : 2018	Valve fittings for self contained breathing apparatus (SCBA) and self contained underwater breathing apparatus (SCUBA) - Specification (First Revision)	1
<b>Total</b>		<b>453</b>

**(H) Chemical Engineering Plants and Related Equipment (MED 17)**

IS NO.	PRODUCT	NO. OF LICENCES
IS 9890 : 1981	Specification for general purpose ball valves	19
IS 11552 : 2020	Liquid Nitrogen Vessels of Capacity up to 75 Litres — Specification (Second Revision)	04
IS 13095 : 2020	Butterfly Valves for General Purposes (First Revision)	98
<b>Total</b>		<b>121</b>

**(I) Pumps (MED 20)**

IS NO.	PRODUCT	NO OF LICENCES
IS 6595 (Part 1) : 2018	Horizontal centrifugal pumps for clear, cold water: Part 1 Agricultural and rural water supply purposes	25
IS 6595 (Part 2) : 1993	Horizontal centrifugal pumps for clear, cold water: Part 2 General purpose (other than agricultural and rural water supply) - Specification	1
IS 8034:2018	Submersible pump sets	484
IS 8418:1999	Horizontal Centrifugal self-priming pumps	1
IS 8472:2019	Regenerative pumps for clear cold water	102
IS 9079:2018	Electric moonset pumps for clear, cold water for Agricultural and water supply purposes	84
IS 10805:2022	Foot valves, reflux valves or non-return valves and bore valves to be used in suction lines of agricultural pumping systems	8
IS 11501:1986	Engine monoset pumps for clear, cold, fresh water for agriculture purposes	11
IS 12225:1997	Centrifugal Jet pump	11
IS 14220:2018	Openwell submersible pump sets	250
IS 17018 (Part 1) : 2022	Solar photovoltaic water pumping systems part 1 centrifugal pumps specification	2
<b>Total</b>		<b>979</b>

**(J) Diamond Core and Waterwell Drilling (MED 21)**

IS NO.	PRODUCT	NO. OF LICENCES
IS 8110 : 2019	Well Screens and Slotted Pipes	7
<b>Total</b>		<b>7</b>

**(K) Compressors, Blowers and Exhausters (MED 22)**

IS NO.	PRODUCT	NO. OF LICENCES
IS 5456 : 2006	Positive Displacement Type Air Compressors and Exhausters – Specification	3
<b>Total</b>		<b>3</b>

**(L) Domestic and Commercial Gas Burning Appliances (Pressure Type) (MED 23)**

IS NO.	PRODUCT	NO OF LICENCES
IS 4246 : 2002	Domestic Gas Stoves for use with Liquefied Petroleum Gases	307
IS 8749 : 2002	Biogas Stove	3
IS 15558 : 2005	Mini domestic water heater for use with LPG	25
IS 11241 : 1985	Commercial Burners Using LPG at Inlet Pressure up to 147.1 kN/m <sup>2</sup> (1500 gf/cm <sup>2</sup> )	1
IS 14612 : 1999	Commercial Burners Using LPG at Inlet Pressure up to 147.1 kN/m <sup>2</sup> (1500 gf/cm <sup>2</sup> )	4
IS/ISO 22702 : 2018	Utility Lighters - General Consumer-Safety Requirements	4
IS 17150:2019	Mini Domestic Water Heater for Use with Piped Natural Gas (PNG) – Specification	2
IS 17153:2019	Domestic Gas Stoves for Use with Piped Natural Gas (PNG) — Specification	4
IS 17814 : 2022	Corrugated Metal Flexible Safety Gas Hose Assemblies - Specification	1
IS/ISO 9994 : 2018	Lighters Safety specifications First Revision	1
<b>Total</b>		<b>352</b>

**(M) Security Equipment (MED 24)**

IS NO.	PRODUCT	NO OF LICENCES
IS 550 : Part 1 : 2022	Safes Part 1 Specification	8
IS 5244 : 2020	Safe Deposit Locker Cabinets Specification	6
IS 11188 : Part 1 : 2021	Vault (Strong Room) Doors Part 1 Specification	7
IS 14203 : 2023	Fire Resisting Record Protection Cabinets	4
IS 14561 : 2014	Fire Resisting (Insulating) Filing Cabinets Specification	5



IS 16723:2020	Combination Lock — Specification ( First Revision )	1
IS 17566:2021	Key locks for security Equipment-Specification	5
IS 17541 : 2021	Modular panel for security of premises specification	3
IS 17435: 2020	Ballistic Shields - Specification	1
<b>Total</b>		<b>40</b>

**(N) Oil Burning Appliances (MED 26)**

IS NO.	PRODUCT	NO OF LICENCES
IS 8808 : 2019	Burners for Oil Pressure Stoves and Oil Pressure Heaters	1
<b>Total</b>		<b>1</b>

**(O) Handpumps (MED 27)**

IS NO.	PRODUCT	NO. OF LICENCES
IS 8035 : 2022	Handpump - Shallow Well - Specification (second Revision)	1
IS 14106 : 2018	Direct action handpumps - Specification (First Revision)	1
IS 15500 (Part 2) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 2 Handpumps	50
IS 15500 (Part 3) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 3 Handpump Sub-Assemblies	20
IS 15500 (Part 4) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 4 Steel Components	31
IS 15500 (Part 5) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 5 Cast Iron Components	27
IS 15500 (Part 6) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 6 Brass/Bronze or Stainless Steel Components	29
IS 15500 (Part 7) : 2021	Deepwell Handpumps, Components and Special Tools — Specification Part 7 Rubber Components	20
<b>Total</b>		<b>179</b>

**(P) Sewing Machines (MED 29)**

IS NO.	PRODUCT	NO OF LICENCES
IS 1610 : 2018	Household Sewing Machines - General Requirements	35
IS 12109 : 1987	General Requirements for Light Duty Sewing Machine Heads for Industrial Use	24

IS 15449 : Part 1 : 2004	Household Zig-Zag Sewing Machine Head - Part 1 : General Requirements	5
<b>Total</b>		<b>64</b>

**(Q) Gaskets and Packing (MED 30)**

IS NO.	PRODUCT	NO OF LICENCES
IS 2712 : 1998	Gaskets and Packings - Compressed Asbestos Fibre Jointing	1
<b>Total</b>		<b>1</b>

**(R) Utensils, Cutlery and Domestic Hardware (MED 33)**

IS NO.	PRODUCT	NO OF LICENCES
IS 1660 : 2009	Wrought Aluminium Utensils — Specification	118
IS 2347:2023	Domestic pressure cooker - Specification	384
IS 14756 : 2022	Stainless Steel Cooking Utensils	62
IS 16015 : 2013	Mortice Locks with Lever Mechanism (Vertical Type, Sliding Door Locks and Dead Locks)	1
IS 17526 : 2021	Stainless Steel Vacuum Flasks - Specification	17
IS 17803 : 2022	Potable Water Bottles (Copper, Stainless Steel, Aluminium) — Specification	26
IS 17790 : 2022	INSULATED FLASK FOR DOMESTIC USE SPECIFICATION	3
IS 17569 : 2021	Insulated Containers for Food Storage — Specification	3
IS 4109 : 2023	Kadahi - Specification	1
<b>Total</b>		<b>615</b>
<b>Grand Total</b>		<b>3218</b>

**Total number of Indian Standard formulated by MED under certification – 100**

**ANNEX 5**  
(Item 8 and Annex 6)

**LIST OF MANDATORY STANDARDS**

Sl No.	MED Committee	IS No.	Title of the Standard
1.	MED 03	IS 1391 (Part 1) : 2023	Room Air Conditioners Specification Part 1 Unitary Air Conditioners (Fourth Revision)
2.	MED 03	IS 1391 (Part 2) : 2023	Room Air Conditioners Specification Part 2 Split Air Conditioners (Fourth Revision)
3.	MED 03	IS 1475 (Part 1) : 2001	Self - Contained drinking water coolers - Specification:

			Part 1 energy consumption and performance (Third Revision)
4.	MED 03	IS 3315 : 2019	Evaporative air coolers (Desert Coolers) — Specification (Third Revision)
5.	MED 03	IS 7872: 2020	Deep Freezers - Specification (Second Revision)
6.	MED 03	IS 8148 : 2018	Ducted and package air - Conditioners - Specification (Second Revision)
7.	MED 03	IS 10617: 2018	Hermetic compressors - Specification (Second Revision)
8.	MED 03	IS 11329: 2018	Finned type heat exchanger for room air conditioner (First Revision)
9.	MED 03	IS 17550 (Part 1) : 2021	Household Refrigerating Appliances — Characteristics and Test Methods Part 1 General Requirements
10.	MED 03	IS 17570 (Part 1) : 2021/ISO 16890-1:2016	Air Filters for general ventilation Part 1 Technical specifications requirements and classification system based upon particulate matter efficiency ePM Adoption of ISO 16890-1:2016
11.	MED 03	IS 17681 : 2022	Specification for Bottled water dispensers
12.	MED 04	IS 12933 (Part 1): 2003	Solar flat plate collector - Specification: Part 1 requirements
13.	MED 04	IS 16544: 2016	All Glass Evacuated Tubes Solar Water Heating System
14.	MED 04	IS 16542: 2016	Storage Water Tank for All Glass Evacuated Tubes Solar Water Heating Systems
15.	MED 04	IS 12933 (Part 2): 2003	Solar flat plate collector - Specification: Part 2 components
16.	MED 10	IS 278 : 2009	Galvanized steel barbed wire for fencing - Specification (Fourth Revision)
17.	MED 10	IS 1855 : 2022	Stranded steel wire ropes for winding and man – riding haulages in mines
18.	MED 10	IS 1856 : 2021	Steel wire ropes for haulage purposes - Specification Fourth Revision
19.	MED 10	IS 2141:2000	Hot dip galvanized stay strand - Specification (Fourth Revision)
20.	MED 10	IS 2266 : 2024	Steel wire ropes for general engineering purpose - Specification (Fifth Revision)
21.	MED 10	IS 2365 : 2024	Steel Wire Suspension Ropes for Lifts, Elevators and Hoists
22.	MED 10	IS 4521:2024	Wire Ropes Used in Oil Wells and Oil Well Drilling
23.	MED 10	IS 16014:2018	Mechanically Woven, Double- Twisted, Hexagonal Wire Mesh Gabions, Revet Mattresses and Rock Fall Netting and Other Rock Fall Netting and Other Products for Civil Engineering Purposes (Galvanized Steel Wire or Galvanized Steel Wire with polymer coating)
24.	MED 16	IS 3196 (Part 1) : 2013	Welded low carbon steel cylinders exceeding 5 litres water capacity for low pressure liquefiable gases: Part 1 cylinders for liquefied petroleum gases (Lpg) - Specification (Sixth Revision)
25.	MED 16	IS 3196 (Part 2) : 2006	Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable gases: Part 2 cylinders for liquefiable non - Toxic gases other than lpg - Specification (First Revision)
26.	MED 16	IS 3196 (Part 4) : 2001	Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable gases - Specification: Part 4 cylinders for toxic and corrosive gases

27.	MED 16	IS 3224 : 2021	Valve for compressed gas cylinders excluding liquefied petroleum gas (LPG) cylinders - Specification (fourth revision)
28.	MED 16	IS 3745 : 2006	Yoke type valve connections for small medical gas cylinders - Specification (Second Revision)
29.	MED 16	IS 7142 : 1995	Welded low carbon steel cylinders for low pressure liquifiable gases not exceeding 5 litre water capacity - Specification (First Revision)
30.	MED 16	IS 7285 (Part 1) : 2018	Refillable seamless steel gas cylinders - Specification: Part 1 normalized steel cylinders (Fourth Revision)
31.	MED 16	IS 7285 (Part 2) : 2017	Refillable seamless steel gas cylinders - Specification: Part 2 quenched and tempered steel cylinders with tensile strength less than 1 100 mpa (112 Kgf/mm <sup>2</sup> ) (Fourth Revision)
32.	MED 16	IS 7302 : 2018	Valve fittings for self-contained breathing apparatus (SCBA) and self-contained underwater breathing apparatus (SCUBA) - Specification (First Revision)
33.	MED 16	IS 7312 : 2018	Welded and seamless steel dissolved acetylene gas cylinders - Specification (Third Revision)
34.	MED 16	IS 8737 : 2017	Valve fittings for use with liquefied petroleum gas (LPG) cylinders for more than 5 litre water capacity - Specification (Second Revision)
35.	MED 16	IS 8776 : 1988	Specification for valve fittings for use with liquefied petroleum gas (LPG) cylinders up to and including 5 - Litre water capacity (First Revision)
36.	MED 16	IS 9798 : 2013	Low pressure regulators for use with liquefied petroleum gas (LPG) - Specification (Second Revision)
37.	MED 16	IS 14899 : 2014	Liquefied petroleum gas (LPG) containers for automotive use - Specification (First Revision)
38.	MED 16	IS 15100 : 2018	Multi - Function valve assembly for permanently fixed liquefied petroleum gas (LPG) containers for automotive use - Specification (First Revision)
39.	MED 17	IS 13095 : 2020	Butterfly Valves for General Purposes (First Revision)
40.	MED 23	IS 4246 : 2002	Domestic gas stoves for use with liquefied petroleum gases - Specification (Fifth Revision)
41.	MED 23	IS/ISO 9994:2018	Lighters Safety specifications (First Revision)
42.	MED 23	IS 15558 : 2005	Mini domestic water heater for use with LPG – Specification
43.	MED 23	IS 17150: 2019	Mini domestic water heater for use with piped natural gas (PNG) — specification
44.	MED 23	IS 17153:2019	Domestic gas stoves for use with piped natural gas (PNG) – Specification
45.	MED 23	IS/ISO 22702:2018	Utility Lighters – Safety Specifications
46.	MED 24	IS 550 (Part 1) : 2022	Safes: Part 1 specification (Fifth Revision)
47.	MED 24	IS 5244 : 2020	Safe deposit locker cabinets
48.	MED 24	IS 17566:2021	Key locks for security equipment
49.	MED 26	IS 1342 : 2019	Oil pressure stoves - Specification (Seventh Revision)
50.	MED 26	IS 2787 : 2006	Oil pressure heaters - Specification (Third Revision)
51.	MED 26	IS 10109 : 2018	Oil pressure stoves - Offset burner type - Specification (Second Revision)
52.	MED 29	IS 15449 : Part 1 : 2004	Household zig - Zag sewing machine head: Part 1 general requirements

53.	MED 33	IS 1660 : 2009	Wrought aluminium utensils - Specification (First Revision)
54.	MED 33	IS 2347 : 2023	Domestic Pressure Cooker — Specification (Seventh Revision)
55.	MED 33	IS 14756 : 2022	Stainless Steel Cookware (Second Revision)
56.	MED 33	IS 17803: 2022	Potable Water Bottles (Copper, Stainless Steel, Aluminum) — Specification
57.	MED 33	IS 17790 : 2022	Insulated Flask for Domestic Use — Specification
58.	MED 33	IS 17526 : 2021	Stainless Steel Vacuum Flasks — Specification
59.	MED 33	IS 17569: 2021	Insulated Containers for Food Storage — Specification

**ANNEX 6**  
(Item 11.1)

**BIS CERTIFICATION SCHEMES**

**1. Product Certification**

**1.1 BIS Certification Marks Scheme**

The BIS Certification Marks Scheme consists of a series of activities aimed at ensuring the quality of the products under certification at the various stages in the manufacturer's premises, providing a third party certification. The presence of the BIS Standard Mark on a product indicates that the product has been produced and inspected in accordance with an approved scheme of testing and inspection that incorporates means to ascertain conformance of various requirements given in the applicable Indian Standard. BIS organizes frequent surveillance activities to maintain a check on the quality of goods certified on a continuous basis under a well-defined scheme.

BIS has, so far, granted approximately above 44,913 licenses out of which 3294 licenses are related to Standards formulated by MEDC. The details are given in **Annex 4** (Page No. 90-97).

Compliance of 59 Indian standards under this Council are under mandatory product certification scheme of BIS through various Rules/QCO. The details are given in **Annex 5** (Page No. 97-100).

The Council may **NOTE**.

**1.2 System Certification**

BIS operates various Management System Certification Schemes, the number of licenses issued for different Management System Certification schemes as on date is listed below:

SI No.	Management System Certification Schemes	Specification	Accreditation	Standard Year	Number of licenses
1.	Quality Management System (QMS)	IS/ISO 9001	Yes	1991	805
2.	Hazard Analysis and Critical Control Points (HACCP)	IS 15000	No	1998	2

3.	Quality Management System (QMS) + Hazard Analysis and Critical Control Points (HACCP)	IS/ISO 9001 & IS 15000	No	1998	8
4.	Environmental Management System (EMS)	IS/ISO 14001	Yes	1997	209
5.	Food Safety Management System (FSMS)	IS/ISO 22000	Yes	2006	39
6.	Energy Management System (EnMS)	IS/ISO 50001	Yes	2013	40
7.	Occupational Health & Safety Management System (OHSMS)	IS 18001 & IS/ISO 45001	Yes	2003	165
8.	Service Quality Management System (SQMS)	IS 15700	No	2007	125
9.	Medical Device Management System (MDMS)	IS/ISO 13485 & IS 23485	No	2016	6
10.	Social Accountability Management Systems (SAMS)	IS 16001	No	2016	1
11.	Road Traffic Safety Management System Certification Scheme (RTSMS)	IS/ISO 39001	No	2018	1
12.	Adventure Tourism Safety Management System (ATSMS)	IS/ISO 21101	No	2018	1
13.	Ready Mixed Concrete Certification Scheme (RMC)	ISO 9001 along with IS 4926	No	2018	12
14.	Integrated Milk Certification Scheme for Packaged Pasteurized Milk (IMCS)	IS:13688 along with ISO 22000	No	2018	0
15.	Anti-Bribery Management system (ABMS)	IS/ISO 37001	No	2019	10
16.	Educational Organizations Quality Management System	IS/ISO 21001	No	2018	12
17.	Information Security Management Systems	IS/ISO 27001	No	2019	9
18.	Medical Devices Quality Management System Requirements and Essential principles of Safety and performance (MDSPMS)	IS 23485	No	2019	4
19.	Piped Drinking Water Supply Management Systems Certification	IS 17482	No	2020	0
20.	Ready Mix Concrete Process Certification	IS 4926	No	2021	7
21.	CAS for Milk and Milk Products	IS/ISO 22000	Yes	2021	5

22.	CAS Online Consumer Reviews - Principles and Requirements for the Collection, Moderation and Publication for Online Reviews (OCRPs)	IS 19000	No	2023	0
<b>Total: 1461</b>					

List of Management Systems Certification Schemes (till 25<sup>th</sup> November 2024)

The Council may **NOTE**.

### **1.3 Hallmarking on Gold Jewellery as per IS 1417 and silver jewellery as per IS 2112 and Artifacts**

BIS is operating the Hallmarking Scheme for gold and silver jewellery on behest of Government of India to protect the interests of the consumer. As per this Scheme, a licence is given to jewellers/jewellery manufacturers, after ensuring that the jewellery meets the requirement of purity specified. Under the scheme, a BIS Certified jeweller has to get his jewellery assayed and hallmarked from any of the BIS recognized Assaying and Hallmarking Centres.

Presently, there are 1,77,967 jewellers registered with BIS for selling gold and silver hallmarked jewellery and 1625 Assaying & Hallmarking Centres have been recognized for testing and hallmarking the jewellery.

Government of India has mandated the Gold Hallmarking Scheme from 16 June 2021 in a phased manner and has since launched the scheme starting with 256 districts (who are allowed to sell only 14, 18 and 22 carat gold jewellery) in the country that have Assaying and Hallmarking centres. After mandatory hallmarking and implementation of HUID automation, about 1 crore pieces of gold jewellery are being hallmarked with HUID every month. Further vide amendment to the QCO, the same has been extended to cover 343 districts and all the grades mentioned in IS 1417 viz 14, 18, 20, 22, 23 and 24 (995) are covered under mandatory hallmarking wef 1 June 2022.

The Council may **NOTE**.

### **1.4 Certification Scheme for Foreign Manufacturers and Imported Goods**

With the opening of the National economy, it has become necessary to regulate the quality of imports and to ensure that national standards are being adhered to. In line with above, Directorate General of Foreign Trade (DGFT), Ministry of Commerce vide their two notifications in November 2000 and March 2001 covered 83 items under mandatory certification for the goods being imported in India. With this notification, foreign manufacturers of these products exporting to India shall have to come under the BIS umbrella before export. The Bureau has, therefore, launched Certification Scheme for Foreign Manufacturers and imported goods and also to facilitate the compliance of various quality control orders issued by the Government of India for mandatory certification. It will provide equal opportunities to domestic and foreign industry in line with WTO requirements.

**ANNEX 7**  
(Item 5.1.1)

**REPORT ON MECHANICAL ENGINEERING CONVENTION**

BIS organized a Convention for Deans and Heads of Departments (HoDs) of MoU Partner institutions of the Mechanical Engineering discipline. The event took place at Hotel Sarovar Portico on the 20 and 21 September 2024. 73 delegates from 64 MoU partner institutes participated in the convention.

**Shri Praveen Khanna DDG (Sothern Region)** welcomed all the delegates to the 2 day convention of BIS with Deans and HoDs of Mechanical Engg discipline of MoU partner Institutes and highlighted the critical role of academia in the standardization process. He underscored the significance of contributions that academicians can make and how these collaborations can drive innovation, enhance the quality of research, and integrate academic insights into national and international standards.

**Shri Sanjay Pant DDG Standardization BIS, HQ** in his inaugural address outlined the organization's core functions and its critical role in developing and maintaining national standards. Shri Pant elaborated the involvement of stakeholders, comprehensive process of standards formulation thus explaining, the stages of formulation from the initial identification of standardization needs, preparation of draft standards, wide circulation for public comments till the final gazette notification. He further highlighted the importance of stakeholder engagement, including the participation of academia, in ensuring that standards are robust, inclusive, and effective including participation in R & D projects commissioned by BIS.

**Shri Deepak Aggarwal, Scientist- F & Head, SCMD** took a session on Standards Formulation. During the session he covered the processes and methodologies involved in developing and implementing standards, the role of various stakeholders, and the importance of standardization in ensuring quality and safety across different sectors. He also highlighted the contributions of BIS at international level in development of International Standards like (ISO/IEC).

**Shri K V Rao, Scientist- F & Head, MED** gave live demonstration to the participants about BIS care application explaining all the features especially 'know your standards' which enables a user to view/download the required Standards by simply entering the IS No or the keyword for search. Shri Rao then conducted a group exercise aimed at identification of new subjects/area in the domain of Mechanical Engineering which can be taken up for Standardization in the near future.

**Shri R. R. Singh, Scientist- F & Head, PGD** in his presentation covered a wide range of activities and areas covered in standardization in the field of Mechanical Engineering. He detailed the processes of standards formulation, constitution and composition of Technical Committees, Positions vacant for Academia in respective TCs, significance of contributions of the stockholders in the Mechanical Engg, Production and General Engg as well as Transportation Engg Division Councils at national and international level. The areas where academia can contribute and are open for memberships from academic institutes were outlined and he urged the delegates for nominating members from their respective institutes.



**Shri Mitra Sen Verma, Scientist-D, TED** gave a presentation on role of BIS in standardization at international level and involvement of BIS as National Standards Body at ISO/IEC level. He also elaborated on the current New Work Item Proposals (NWIPs) in ISO/IEC where India can take up leadership role by engaging suitable experts from Academic Institutes as well as Industry. It was also highlighted that there is an immediate need of experts in various areas of mechanical engineering to respond to the documents received at various stages of international standards formulation.

**Shri Prasoon Yadav, Scientist-C, MED** gave a live demonstration of Digital Solutions available at BIS website. He showcased the latest digital initiatives and platforms especially the features of Academic Dashboard developed to streamline the standardization process and making it more accessible and efficient for the MOU partner institutes. He also illustrated how these tools are designed to facilitate greater participation from academia and other stakeholders by providing easy access to draft standards, enabling the submission of comments and suggestions, participation in R & D projects and offering a range of other interactive features to enhance collaboration.

**Shri, Gaurav Jayswal, Scientist-C, TED** gave presentation focusing on green mobility, which encompasses the development and implementation of standards for sustainable and environmentally friendly transportation solutions such as E-vehicles and Hydrogen based technology.. He also highlighted the role and contribution of BIS in National Green Hydrogen Mission (NGHM) of Govt. of India, by developing standards on generation, storage, transportation and dispensation of Green Hydrogen. The benefits and challenges in green hydrogen fuel ecosystem were also explained to the participants.

**Shri Kundan Giri, Scientist-C, MED** gave a presentation on standardization in the field of Industrial Automation and Robotics wherein he informed about various type of robots and their applications. He informed the innovations in robotics, technological advancement, test methods and important role of standardization in the world of robotics. He urged the delegates to go through the Programme of work related to the PGD committees and suggest new subject areas in this emerging field.

**The following representatives from Partner Institutes** was shared their experience in association with BIS and various activities conducted by them as part of MoU:

- **Dr. Raman Bedi, Dean Academic,** Dr. B R Ambedkar National Institute of Technology, Jalandhar
- **Dr. A Rajendra Prasad, Dean,** Sri Sai Ram Engineering College, Chennai
- **Prof. Somnath Chattopadhyaya, Professor and HoD, Mech. Engg.,** Indian Institute of Technology (ISM), Dhanbad