

FI. No. 9/28/2019-HE&MT [E-19031]
Government of India
Ministry of Heavy Industries
HE&MT Section

Room No. 327, Udyog Bhawan,
New Delhi. Dated: 08th May, 2025

To,

All Members of the Technical Committee.

Subject: Minutes of the 1st Meeting of the Technical Committee for monitoring and streamlining the implementation of Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2024 under the Chairpersonship of Shri Vijay Mittal, Joint Secretary, MHI, held on 29.04.2025 at 15:00 Hrs. in Udyog Bhawan, New Delhi –reg.

Sir,

With reference to the subject cited above, I am directed to forward herewith the minutes of the 1st Meeting of the Technical Committee for monitoring and streamlining the implementation of Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2024 under the Chairpersonship of Shri Vijay Mittal, Joint Secretary, MHI, held on 29.04.2025 at 15:00 Hrs. in Udyog Bhawan, New Delhi, for information and further necessary action.

Encl: As above.



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Copy to:

1. PPS to Joint Secretary (VM), MHI
2. PA to Director (HE&MT), MHI
3. PA to Director (HEI), MHI
4. Deputy Secretary (HE&MT), MHI
5. Deputy Secretary (Auto), MHI
6. All Members of the Sub-Committees.

Minutes of the 1st Meeting of the Technical Committee held on 29.04.2025 in MHI to monitoring and streamlining the implementation of the Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2024

The 1st Meeting of the Technical Committee for monitoring and streamlining the implementation of the “Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2024” (OTR) was held on 29.04.2025 at 15:00 Hrs. under the Chairpersonship of Shri Vijay Mittal, Joint Secretary, Ministry of Heavy Industries (MHI). The list of participants is attached in the ***Annexure***.

2. At the outset, the Joint Secretary, MHI, welcomed all participants and provided a brief overview of OTR, outlining the objective of the discussion, and emphasizing the importance of effective implementation of the Machinery and Electrical Equipment Safety (OTR) Order, 2024. He highlighted that the OTR was issued on 28.08.2024, with a one-year lead time provided for its implementation.

3. Joint Secretary, MHI, further mentioned that BIS has been earnestly working over the past eight months to develop SOPs, FAQs, and operational mechanisms to support the implementation process. While acknowledging certain limitations in specific areas, he appreciated the efforts made by BIS and noted the positive response received from both Indian and foreign industries in terms of pre-registration requests.

4. Director (HE&MT), MHI, gave a detailed presentation outlining the Terms of Reference (ToR) of the Technical Committee.

Agenda for the meeting was thereafter taken up in the following order:

- i. Constitution of sector-specific Sub-Committees;
- ii. Actions taken by BIS towards the implementation of the OTR;
- iii. Roadmap for sector-wise implementation.

Agenda (i):

4.1. Director (HE&MT), MHI, mentioned that numerous requests and representations have been received from Industry stakeholders and Associations. In response, it is proposed to constitute the following 07 Sector-specific Sub-Committees to address sectoral concerns and facilitate focused implementation of the OTR.

- a. Subcommittee on Process Plant Machinery
- b. Subcommittee on Earthmoving and Construction Machinery
- c. Subcommittee on Printing, Packaging and Allied Machinery
- d. Subcommittee on Textile Machinery and Machine Tools
- e. Subcommittee on Plastic Machinery
- f. Subcommittee on Electrical and Electronic Equipment
- g. Subcommittee on Automobile and Automotive Components

4.2. The proposed agenda of Sub-Committees includes:

- i. Reviewing the Indian Standards (IS) applicable to respective sectors and recommending any necessary clarifications or alignment issues;
- ii. Identifying sector-specific implementation challenges and report them to the Technical Committee;
- iii. Recommending sector-specific FAQs, user manuals, and awareness tools;
- iv. Suggesting training needs for stakeholders and enforcement agencies;
- v. Submission of monthly status reports to the Technical Committee;
- vi. Any other matter with the permission of the Sub-Committee Chairperson.

4.3. Director (HE&MT), MHI, further added that BIS is the implementation body, and CMTI has been included as the technical partner.

Agenda (ii):

5.1. Shri Deepak Kumar Singla, Scientist F, BIS, informed that BIS has conducted 12 awareness programs to date throughout India by their extension centers. To strengthen internal capacity, 120 officers have been trained, and recruitment efforts are ongoing. The BIS pre-registration portal is live, with over 494 Indian manufacturers and 1115 foreign manufacturers already registered. He further shared that BIS has engaged CDAC to develop the online compliance portal, and site is expected to go live by 01.06.2025 to register with BIS certification process.

5.2. Shri Deepak Kumar Singla, further added that the pre-registration data has helped BIS assess the anticipated workload and identify priority sectors requiring focused attention. These include pumps and compressors, electrical equipment, rubber products, rotary equipment, and machine tools. He noted that the highest number of registrations so far has been received from manufacturers in the textile machinery and electrical equipment sectors.

Agenda (iii):

6. Joint Secretary, MHI, invited all stakeholders to provide their inputs/comments on two key aspects: (i) measures that would contribute to long-term indigenous capacity building in line with the vision of *Atma Nirbhar Bharat* and *Make in India*; and (ii) operational challenges, realistic timelines, and suggestions for a structured and effective implementation plan.

6.1. Dr. Nagahanumaiah, Director, CMTI, emphasized the need to strengthen technology development in the capital goods sector, noting that India continues to meet less than 50% of its domestic demand for manufacturing machinery. He highlighted that the OTR is an important step toward ensuring quality and safety standards, while also aiming to position India as a global hub for manufacturing excellence. He acknowledged that while initial implementation may pose challenges, the long-term benefits for domestic manufacturers are substantial. He further proposed using existing CMTI test centers as referral laboratories to support the certification process.

6.2. Shri Ankit Goel, Chief Technology Officer, Action Construction Equipment Limited, representing the Indian Construction Equipment Manufacturers Association (ICEMA), expressed gratitude to MHI for initiating the OTR, acknowledging it as a timely and much-needed step for the industry. He affirmed the industry's readiness to align with the regulations, noting that many manufacturers already comply with similar standards. However, he requested a deferment in the implementation timeline for parts and

components due to the broad product scope and the time required for adequate preparation. ICEMA also recommended issuing basic FAQs to support industry understanding and compliance.

6.3. In response to ICEMA, BIS mentioned that technical documents, fee structures, and other relevant details are already outlined in Scheme X, and developing such content may fall under the scope of work of the subcommittees.

6.4. Shri T K Venkatesh, Director, Advanced Machine Tool Testing Facility, representing the Indian Machine Tool Manufacturers' Association (IMTMA) supported the implementation of OTR for improving quality certification and highlighted the importance of specialized technical expertise in machinery safety. He proposed the establishment of an independent referral mechanism to address conflicts of interest in BIS-conducted audits, ensuring neutrality and transparency in the process.

6.5. Shri Srinjoy Das, Senior Director, IMTMA, welcomed OTR and emphasized that the machine tools sector comprises over 600 micro-scale enterprises and stressed the need for a mechanism to ensure their representation. Further, he emphasized training on the technical files.

6.6. Shri Sachin Kumar, Executive Director, Textile Machinery Manufacturers Association of India (TMMA), recommended to cover the machines and defer the components and sub-assemblies. BIS should establish a query redressal mechanism and provide information on foreign manufacturers. BIS responded that the Foreign Manufacturers Certification Scheme (FMCS) currently does not have an online portal to collect such information, unlike the system for domestic manufacturers.

6.7. Shri Prashant Vats, Executive Secretary of the Indian Printing and Packaging Machinery Association (IPAMA), also supported the proposal for a query redressal mechanism.

6.8. Smt. Charu Mathur, Director General, Indian Electrical and Electronics Manufacturers Association (IEEMA), reiterated the need for a differentiated approach in applying the OTR to electrical equipment, noting that parts and accessories are often customized for specific applications. She emphasized the complexity of testing procedures and recommended extending the implementation timeline. She also requested to include the Central Electricity Authority (CEA) and MNRE in the Sub-Committee.

6.9. Shri Manoj Kumar Belgaonkar, Siemens Limited, representing FICCI, appreciated the progress made under the OTR initiative, recognizing it as an effective solution to long-standing industry challenges. He affirmed FICCI's commitment to supporting MHI in the successful implementation of the initiative. OTR will have a good impact on the Manufacturing Industry. He emphasized having transparent guidelines, and recommended extending the implementation timeline.

6.10. Shri Sanjay Chavre, Advisor, Tools and Gauge Manufacturers Association (TAGMA), requested the inclusion of certain tooling products under the OTR, citing safety concerns for those currently excluded. MHI acknowledged the request, noting that it would be further deliberated within the subcommittee.

6.11. Dr. Nandakumar K, Deputy Chairman, Process Plant and Machinery Association of India (PPMAI), emphasized the need for careful deliberation in the implementation process and the development of guidelines. He suggested expanding the committee to include additional members, ensuring comprehensive representation and expertise.

6.12. Smt. Anu Choudhary, Secretary General, Plastics Machinery Manufacturers Association of India (PMMAI), requested timely updates on matters related to extensions, to which MHI responded that such decisions are based on collaborative efforts. Additionally, she requested an extension of the implementation date and a deferment for parts and accessories, highlighting the wide range of machinery types covered under the OTR.

6.13. Shri Prashant Vats, Executive Secretary, IPAMA, suggested that a toll-free number may be established to support stakeholders during the registration process, ensuring easier access to assistance and query resolution. He also recommended extending the implementation timeline.

6.14. Shri Amit Kumar Sharma, Deputy Director, Society of Indian Automobile Manufacturers (SIAM), highlighted that sub-components such as gears, toothed wheels, chain sprockets, transmission elements, and ball or roller screws fall under the scope of the OTR, thereby requiring additional validation and testing time. He requested that components used specifically for vehicle manufacturing be exempted from the OTR. He also underscored the importance of considering the operational needs of vehicle manufacturers to ensure that their product functionalities are not adversely affected by the regulatory framework. Therefore, requested to extend the implementation of OTR.

6.15. Smt. Seema Babal, Director, Automotive Component Manufacturers Association of India (ACMA), emphasized the need to differentiate between products intended for trade, spare parts, and special-purpose machinery and automobiles. She recommended that exemptions be carefully considered for spare parts and components used in specialized machinery, to avoid disruption in industrial and commercial operations and extend the implementation timeline.

6.16. Shri Mahesh Shingade, Scientist B, Ministry of Road Transport & Highways, recommended aligning OTR regulatory measures, ensuring consistency, and minimizing ambiguity in compliance. He also emphasized the need for coordination among relevant Ministries to streamline enforcement and policy execution.

6.17. Shri Sunil Newar, Joint Director, Ministry of Micro, Small and Medium Enterprises (MSME), advocated for the inclusion of members from MSME Technology Centers as domain experts in the subcommittees. He stressed that technical expertise at the ground level would enhance the relevance and feasibility of the standards being formulated.

6.18. Shri Pranav Choudhary, Joint Director, Ministry of Skill Development and Entrepreneurship, welcomed MHI's initiative and expressed support, noting that it would significantly contribute to capacity building and enhance workforce readiness in line with evolving industrial needs.

6.19. Shri Gopal, Director, Ministry of Textiles, appreciated MHI's initiative and suggested that officials from the Office of the Textile Commissioner and Research centers may be included as domain experts in the relevant Sub-Committee.

6.20. Shri Rajkumar Bhawariya, Scientist C, Ministry of New and Renewable Energy, expressed support for the initiative and requested inclusion in the subcommittee on electrical and electronic equipment.

6.21. Smt. Pallavi Saha, Joint Director, Engineering Export Promotion Council of India (EEPC India), emphasized the importance of including electrical auto-components and machine tools within the scope of the sub-committees to ensure comprehensive sectoral

representation and address industry-specific concerns effectively. Further, she requested for extension of implementation timelines, and components may be deferred for the time being.

6.22. Shri Anil Mehta, DGM, Havells, representing the Consumer Electronics and Appliances Manufacturers Association (CEAMA), noted that the Quality Control Order (QCO) specifies the exclusion of products already covered under existing QCOs; however, formal clarification on this matter is still awaited. He further recommended that spare parts of existing manufacturing machinery, as well as tools and dies, be carefully considered under the regulatory framework to avoid operational disruptions. Therefore, requested for extension of implementation of OTR.

6.23. Shri D K Meena, Under Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), supported the initiatives of MHI and offered insights on the alignment of the OTR Order with existing standards and industrial policies. He suggested a coordinated approach between various government departments.

6.24. Shri Alok Kumar, Corporate Affairs Manager, DENSO, representing the Automotive Component Manufacturers Association of India (ACMA), raised a query regarding components like compressors that are used across multiple industries and sought clarification on how such cross-sectoral components would be covered under the OTR framework. MHI officials suggested to deliberate such issues in the Sub-Committees.

6.25. Smt. Seema Gupta, Director General, Indian Construction Equipment Manufacturers Association (ICEMA), suggested that BIS should provide a set of general FAQs to assist stakeholders and requested to extend the timeline for implementation of OTR.

6.26. Shri Saurabh Nag, General Manager, Samsung, representing the Refrigeration and Air-Conditioning Manufacturers Association (RAMA), emphasized the need for sector-specific regulatory flexibility in the implementation of the OTR Order. He also requested the inclusion of RAMA in the subcommittee on Electrical and Electronic Equipment to ensure that the unique challenges and requirements of the refrigeration and air-conditioning sector are adequately addressed.

6.27. Shri Grisha Jose, Deputy General Manager, Anup Engineering Limited, enquired about the implementation of the OTR Order on static machinery. In this regards, MHI officials suggested to deliberate such issues in the Sub-Committee.

6.28. Shri Vikas Meshram, Director (Electrical), Directorate General of Mines Safety (DGMS), highlighted the importance of ensuring that the OTR does not overlap with existing regulations. In response, MHI requested DGMS to provide comments on the same subjects that are already communicated to DGMS long back for clarity of products covered under existing regulations or circulars, to avoid any duplication or conflict in regulatory frameworks.

6.29. Smt. Kriti Gupta, Scientist C, Ministry of Electronics and Information Technology, expressed support for the initiative of MHI. She noted that the MEITY already has a Quality Control Order (QCO) – Electronics and Compulsory Registration Order, and assured collaboration with MHI to support the successful implementation of the OTR.

7. After detailed deliberations, the Technical Committee recommended the following based on stakeholders views:

(i) Constitution of Subcommittees:

S. N.	Subcommittee	Lead Association
1	Subcommittee on Process Plant Machinery	PPMAI (Process Plant and Machinery Association of India)
2	Subcommittee on Earthmoving and Construction Machinery	ICEMA (Indian Construction Equipment Manufacturers Association)
3	Subcommittee on Printing, Packaging, and Allied Machinery	IPAMA (Indian Printing and Packaging Machinery Association) DCSSTR (Development Council for Sweets and Snacks Technologies & Raw Materials)
4	Subcommittee on Textile Machinery and Machine Tools	TMMA (Textile Machinery Manufacturers Association of India) IMTMA (Indian Machine Tool Manufacturers Association)
5	Subcommittee on Plastic Machinery	PMMAI (Plastics Machinery Manufacturers Association of India)
6	Subcommittee on Electrical and Electronic Equipment	IEEMA (Indian Electrical and Electronics Manufacturers' Association)
7	Subcommittee on Automobile and Automotive Components	SIAM (Society of Indian Automobile Manufacturers) ACMA (Automotive Component Manufacturers Association of India)

Terms of Reference (ToR) of Sub-committees:

- I. Review IS standards applicable to sector and recommend any clarification or alignment issues;
 - II. Identify sector-specific implementation challenges and report them to the Technical Committee;
 - III. Recommend sector-specific FAQs, user manuals, and awareness tools;
 - IV. Suggest training needs for stakeholders and enforcement agencies;
 - V. Submission of monthly status reports to the Technical Committee;
 - VI. Any other matter with the permission of the Chairperson of the Sub-committee.
- (ii) To consider for processing the case to Competent Authority, for suitable extension of the implementation dates of machines under OTR, initially at least for one year.
- (iii) To consider processing of case for their assemblies, sub assemblies and components under OTR in abeyance, at present.

The meeting ended with vote of thanks to the Chair.

1. Subcommittee on Process Plant Machinery

Scope:

- Safety and BIS standard compliance of pressure vessels, heat exchangers, reactors, storage tanks, etc.
- Alignment with IS standards for Type B and C equipment.
- Lab capacity mapping and support for certification

Lead Association: Process Plant and Machinery Association of India (PPMAI)

Members:

- Shri Shubhankit Srivastava, DS, MHI – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Nomination from Ministry of Power, Ministry of Petroleum and Natural Gas, Ministry of Chemicals and Fertilisers
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Any other members

2. Subcommittee on Earthmoving & Construction Equipment

Scope:

- Earthmovers, cranes, compactors, pavers, loaders, graders, etc.
- Overlap resolution with Motor Vehicles Act (for mobile CE)
- Roadmap for OTR implementation across equipment generations

Lead Association: Indian Construction Equipment Manufacturers Association (ICEMA)

Members:

- Director/DS (Auto) – to be nominated by AS/JS (AEI) – Chairperson
- Nomination from BIS
- Nomination from CMTI

- Ministry of Road Transport and Highways of India, DGMS (Ministry of Mines), Ministry of Labour & Employment, TAGMA
- Automotive Research Association of India (ARAI)
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Any other members

3. Subcommittee on Printing, Packaging & Allied Machinery

Scope:

- Safety compliance for offset, flexographic, digital printers, cutters, labeling, and packing systems
- Packaging, processing, dosing, and sealing machines for food and pharma
- Evaluation of modular and custom-built systems
- MSME-specific standardization needs
- Interface with FSSAI and CDSCO norms
- Certification strategy for custom-made and semi-automated units

Lead Association:

- Indian Printing and Packaging Machinery Association (IPAMA)
- DCSSTR (Development Council for Sweets & Snacks Technologies & Raw Materials)

Members:

- Shri Kumar Abhinav, Scientist C, CMTI – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Food Safety and Standards Authority of India (FSSAI)
- Ministry of Food Processing Industries, Ministry of Health and Family Welfare, MSME Ministry representative
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Any other members

4. Subcommittee on Textile Machinery & Machine Tools

Scope:

- Safety aspects of spinning, weaving, knitting, dyeing, finishing, and embroidery machinery, etc.
- Safety of CNC, turning, drilling, milling, EDM, laser cutting machines, etc.

Lead Association:

- Textile Machinery Manufacturers Association (TMMA)
- Indian Machine Tool Manufacturers Association (IMTMA)

Members:

- Shri Vikas Dogra, Director, MHI – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Ministry of Textiles, Ministry of Steel, Ministry of Skill Development & Entrepreneurship, MSME Ministry, Ministry of Railways, Ministry of Defence Production, EEPIC India, DPIIT (LEI section), TAGMA
- Ahmedabad Textile Industry Research Association (ATIRA), National Textile Corporation (NTC), Cotton Corporation of India (CCI)
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise, 1 Micro Scale Enterprise)
- Nominations from FICII (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise, 1 Micro Scale Enterprise)
- Any other members

5. Subcommittee on Plastic Machinery

Scope:

- Extruders, injection molding machines, blow molders, etc.
- Safety standard for hydraulic and electric drives.

Lead Association: Plastics Machinery Manufacturers Association of India (PMMAI)

Members:

- Shri Shubhankit Srivastava, DS, MHI – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Ministry of Chemicals and Fertilizers (DCPC), MSME Ministry, Department for Promotion of Industry and Internal Trade (DPIIT)
- Indian Institute of Packaging
- Central Institute of Petrochemicals Engineering and Technology (CIPET)

- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale enterprise, 1 Small Scale Enterprise)
- Any other members

6. Subcommittee on Electrical & Electronic Equipment

Scope:

- Motors, circuit breakers, switchgear, drives, industrial control panels, etc.
- Interface with IEC standards, IE Rules, and CEA regulations.

Lead Association: Indian Electrical and Electronics Manufacturers' Association (IEEMA)

Members:

- Shri Gaurav Kishor Joshi, DS, MHI – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Ministry of Electronics and Information Technology, Ministry of Railways, Ministry of Power, DPIIT, Ministry of New and Renewable Energy, Central Electricity Authority (CEA)
- Nomination from RAMA & CEAMA
- CMD, Power Grid Corporation of India Limited (PGCIL)
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Any other members

7. Subcommittee on Automobile & Automotive Components

Scope:

- Automotive components, subsystems, and assemblies under OTR- Safety of manufacturing equipment and test benches used in automotive sector

Lead Association:

- SIAM (Society of Indian Automobile Manufacturers)
- ACMA (Automotive Component Manufacturers Association of India)

Members:

- Director/DS (Auto) – to be nominated by AS/JS (AEI) – Chairperson
- Nomination from BIS
- Nomination from CMTI
- Ministry of Road Transport & Highways, MoEF&CC
- International Centre for Automotive Technology (ICAT)
- Automotive Research Association of India (ARAI)
- Nominations from CII (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Nominations from FICCI (1 Large Scale Enterprise, 1 Medium Scale Enterprise, 1 Small Scale Enterprise)
- Any other members

List of Participants

From Ministry of Heavy Industries (MHI):

1. Shri Vijay Mittal, Joint Secretary, MHI
2. Shri Vikas Dogra, Director (HE&MT), MHI
3. Shri Sureshwar Singh Bonal, Director, MHI
4. Shri Shubhankit Srivastava, Deputy Secretary, MHI
5. Shri Manish Kumar, Deputy Secretary, MHI
6. Shri Unnikrishnan V, Under Secretary, MHI
7. Shri Arnab Kumar Show, Consultant, MHI
8. Smt. Vinutha Asokan, Young Consultant, MHI
9. Smt. Sakshi Gahlot, Young Consultant, MHI

From Other Ministries:

10. Shri Sunil Kumar Newar, Joint Director, Ministry of MSME
11. Shri Rajkumar Bhawariya, Scientist C, Ministry of New and Renewable Energy
12. Shri Gopal, Director, Ministry of Textiles
13. Shri Mahesh Shingade, Scientist B, Ministry of Road Transport & Highways
14. Smt. Kriti Gupta, Scientist C, Ministry of Electronics and Information Technology
15. Shri Pranav Choudhary, Joint Director, Ministry of Skill Development & Entrepreneurship
16. Shri Vikas Meshram, Director (Electrical), Directorate General of Mines Safety (DGMS)
17. Shri D K Meena, Under Secretary (LEI section), DPIIT
18. Shri Jaivir Singh, Section Officer (LEI section), DPIIT

From Bureau of Indian Standards (BIS):

19. Shri Deepak Kumar Singla, Scientist F, CMD-I, BIS
20. Shri Mohit Janoiya, Scientist D, CMD-I, BIS

From R&D Institute / Industry Associations /Stakeholders:

21. Dr Nagahanumaiah, Director, CMTI

22. Smt. Pallavi Saha, Joint Director, EEPC India
23. Shri Aditi Sharma, Sr. Assistant Director, FICCI
24. Shri Parag Kasture, Chief Manager, Siemens Limited – FICCI
25. Shri Manoj Kumar Belgaonkar, Siemens Limited – FICCI
26. Shri Abhilash Uttam, Executive Officer, CII
27. Shri Tarun Singhal, Zonal Head, Lucy Electric India – CII
28. Shri Sachin Kumar Arora, Executive Director, TMMA
29. Shri Sanjay Chavre, Advisor, TAGMA
30. Shri Srinjoy Das, Senior Director, IMTMA
31. Shri T K Venkatesh, Director, Advanced Machine Tool Testing Facility – IMTMA
32. Shri Vipin Pal, AGM (Design), IMTMA
33. Shri Kamal Singh, Deputy Manager, Micromatic Grinding – IMTMA
34. Smt. Anu Chaudhary, Secretary General, PPMAI
35. Shri Nandkumar K, Deputy Chairman, PPMAI
36. Shri Grisha Jose, Deputy General Manager, Anup Engineering Limited – PPMAI
37. Shri Seema Gupta, Director General, ICEMA
38. Smt. Amrita Verya, Deputy Director, ICEMA
39. Shri Ankiit Goel, CTO, Action Construction Equipment Limited – ICEMA
40. Shri Vivek Rawat, DGM, JCB India Limited – ICEMA
41. Smt. Charu Mathur, Director General, IEEMA
42. Shri Uttam Kumar, Deputy Director, IEEMA
43. Shri Amit Kuma, Deputy Director, SIAM
44. Shri Rajesh Grover, Toyota Kirloskar Motor Limited – SIAM
45. Uma Shankar Joshi, Manager, Maruti Suzuki India Limited - SIAM
46. Shri Prashant Vats, Executive Secretary, IPAMA
47. Smt. Seema Babal, Director, ACMA
48. Shri Alok Kumar, Corporate Affairs Manager, DENSO - ACMA
49. Shri Anil Mehta, DGM, Havells – CEAMA,
50. Shri Saurabh Nag, General Manager, Samsung – RAMA
51. Shri Uday Munjal, Director, Copeland
52. Shri Gaurav Gupta, Asst Director, ROTC India
53. Shri Ankur Trivedi, Vice President, Arvind Limited