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# भारतीय मानक ब्यूरो

## BUREAU OF INDIAN STANDARDS

Committee	Date & Day	Time
25th Meeting of Cranes, Lifting Chains And Related Equipment Sectional Committee, MED 14 through Webex	27 June 2024 (Thursday)	1430 hrs

Meeting Link:

<https://bismanak.webex.com/bismanak/j.php?MTID=mfa521fa2c7f22ef128bbe7860884636f>

Meeting ID: 2514 197 5562

Meeting Password: **12345**

**CHAIRPERSON:** Mr Hemant Kumar T, Dy. General Manager, BEML Ltd.

**MEMBER SECRETARY:** Mr Shubham Yadav, Scientist 'C'/Deputy Director, Bureau of Indian Standards, New Delhi

**ITEM 0 WELCOME, OPENING REMARKS AND OPENING AGENDA ITEMS**

**0.1** Welcome & Opening remarks by Head (Mechanical Engineering Department)

**0.2** Welcome & Opening Remarks by Chairperson, MED 14

## ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Minutes of the 24<sup>th</sup> TC meeting of Cranes Lifting Chains and Related Equipment Sectional Committee, MED 14 was circulated to the members on 16th January 2024. No comments have been received on the minutes of the 24th Meeting.

*The Committee may CONFIRM the minutes of the last meeting.*

## ITEM 2 SCOPE AND COMPOSITION OF THE SECTIONAL COMMITTEE

### 2.1 Scope

Standardisation of cranes, winches, lifting chains, sheaves, suspension gears, hooks, swivel and shackles.

*The committee may please review the scope of the committee and suggest if any changes are required.*

#### 2.1.1 Liaison with ISO/IEC

Coordination of work with the following ISO Committees:

ISO #	Title	M-ship
<a href="#">ISO/TC 96</a>	Cranes	Permanent
<a href="#">ISO/TC 96/SC 2</a>	Terminology	Permanent
<a href="#">ISO/TC 96/SC 3</a>	Selection of wire ropes	Permanent
<a href="#">ISO/TC 96/SC 4</a>	Test methods	Permanent
<a href="#">ISO/TC 96/SC 5</a>	Use, operation and maintenance	Permanent
<a href="#">ISO/TC 96/SC 6</a>	Mobile cranes	Permanent
<a href="#">ISO/TC 96/SC 7</a>	Tower cranes	Permanent
<a href="#">ISO/TC 96/SC 8</a>	Jib cranes	Permanent
<a href="#">ISO/TC 96/SC 9</a>	Bridge and gantry cranes	Permanent
<a href="#">ISO/TC 96/SC 10</a>	Design principles and requirements	Permanent
<a href="#">ISO/TC 111</a>	Round steel link chains, chain slings, components and accessories	Permanent
<a href="#">ISO/TC 111/SC 1</a>	Chains and chain slings	Permanent

ISO/TC 111/SC 3	Components and accessories	Permanent
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*The Committee may propose any addition/deletion/modification required in the scope.*

## 2.2 Composition

The following directions have been received from the Competent Authority of the Bureau for reviewing the composition of the Sectional Committee:

- a) New members are to be co-opted who are expected to contribute to emerging new technology.
- b) Efforts should be made to include representatives of different product segments as per the scope of the committee.
- c) Major Government purchasing organisations like DGS&D, RDSO, CPWD, Defence etc. are to be given representation in the committees wherever applicable.
- d) In case representatives of the concerned organisation are not attending the meeting regularly or not continuing even by correspondence, the organisation may be informed for substituting their member.
- e) Members who are represented in individual capacity, the continuation of their membership is to be considered on the basis of their past attendance and contribution.

The present composition of Cranes, Lifting chains and related equipment Sectional Committee, MED 14 is given at **Annex-A**. The list shows the attendance of the members in the last three consecutive meetings.

*The committee may note and suggest any addition/deletion/modification in the composition.*

BIS has published a declaration to be signed by all the members of the Sectional Committees of BIS. From MED01, declaration receipt status is given below:

📄 Sep-2023-DECLARATION SHEET-MED-ARIF-NAVEEN-SIR

📄 Declaration\_Formet\_1.pdf

*The Committee may please note and members who have not submitted the declaration may please submit.*

### 2.2.1 Structure of the Committee

The Committee consists:

<b>0</b> Sub-Committees	<b>10</b> Panels	<b>0</b> Working Groups
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SI No.	ID	Objective	Convener
1	<b>MED14 : Panel 02</b>	Revision of IS 4594 Panel	Mr. Shri Anand Mitkari, Head (Mechanical Design), Mukand Limited, Thane
2	<b>MED14 : Panel 03</b>	Revision of IS 6521-1 Panel	Shri Ravindra Luthra, Action Construction Equipment Limited, Palwal
3	<b>MED14 : Panel 04</b>	Revision of IS 5749 Panel	Mr. Shri Deepak Desai, Director, Kone Cranes and Demag Private Limited, New Delhi
4	<b>MED14 : Panel 05</b>	Revision of IS 15560 Panel	Mr. Shri Deepak Desai, Director, Kone Cranes and Demag Private Limited, New Delhi
5	<b>MED14 : Panel 06</b>	Revision of IS 3938 and IS 9507 Panel	Mr. Shri Preet H. Heri, Managing Director, KITO India Private Limited, Bengaluru
6	<b>MED14 : Panel 07</b>	Revision of IS 807 Panel	Mr. Shri Natarajan R., EGS Computers India Private Limited, Chennai
7	<b>MED14 : Panel 08</b>	Revision of pre 2000 standards-MED 14 Panel	Mr. Shri Rohan Chitlangia, Head (Operations), Indian Chain Private Limited, Kolkata
8	<b>MED14 : Panel 09</b>	Safety Aspect of Cranes and related Equipment Panel	Mr. Shri Preet H. Heri, Managing Director, KITO India Private Limited, Bengaluru
9	<b>MED14 : Panel 10</b>	Ballots and meetings of ISO/TC 96 and its sub-committees Panel	Mr. Shri Deepak Biswal, Senior Manager (Mech), Steel Authority of India, Centre for Engineering and Technology, Ranchi
10	<b>MED14 : Panel 11</b>	Ballots and meetings of ISO/TC 111, ISO/TC 111/SC 1 and ISO/TC 111/SC 3	Mr Pradip Chitlangia, Director, Indian Chain Private Limited, Kolkata

**MED14 : Panel 09 :** The Committee deliberated on the issue to draft a standard on the safety aspect of cranes. The Committee decided to form a panel to discuss the need and the way forward in the standard formulation on the subject ‘Safety aspect of cranes’. The Committee decided that the panel shall provide his recommendation in 2 months which shall be discussed in the next sectional committee meeting.

The committee constituted the panel as follows:

- a) Shri Dipak Patel of M/s Schneider Electric India Pvt. Ltd., Ahmedabad
- b) Shri Preet Heri of M/s Kito India Pvt. Ltd., Bengaluru
- c) Shri Deepak Desai and Shri Sandeep D. Bhattad of M/s Konecranes and Demag Pvt Ltd, Pune
- d) Shri R S Prasad of M/s IPSS Secretariat CET, New Delhi
- e) Shri Prashant P of M/s Seimens Ltd., Thane
- f) Shri Anand Mitkari of M/s Mukand Ltd, Thane

Reminder sent to following Members on 24 Jan 2023. Response awaited.

📎 Email\_2.2.1\_24\_jan\_2023.pdf

*The Committee may please discuss and decide the further course of action.*

### Restructuring of Internal Working Groups/Panels

The following restructuring is proposed for existing Working Groups. They may be renamed as Sub-Committees to map with respective sub-committees at the ISO level. Also, convener ship and membership updates proposed based on interests received and contributions done in the past meetings:

SI No.	Subject	Existing Structure	Proposed Change	Action Taken
1	Cranes	<p><b>MED14/WG01</b>  <b>Scope: Ballots and meetings of ISO/TC 96</b></p> <p>Mr Hemant Kumar M/s BEML Limited (Chair)                      Mr Niranjan Mazire M/s Electromech Material Handling Systems</p>	<p><b>MED14/Panel10</b>  <b>Scope: Ballots and meetings of ISO/TC 96</b></p> <p>Mr Deepak Biswal M/s Steel Authority of India, Centre for Engineering and</p>	<p>The Panel has been constituted in the Standards Portal. The first meeting of the panel was held on 22 Dec 2023.</p> <p>The next panel meeting will be held in July to discuss all</p>

		Mr Ankit Jalan M/s MECON Limited Mr Heeralal Bharani M/s Bharat Heavy Electrical Limited Mr Preet H. Heri M/s KITO India Private Limited Mr Deepak Biswal M/s Steel Authority of India, Centre for Engineering and Technology Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)	Technology (Convener) Mr Ankit Jalan M/s MECON Limited Mr Niranjana Mazire M/s Electromech Material Handling Systems Mr Preet H. Heri M/s KITO India Private Limited Mr Shyam Gurnani, M/s FAFECO Mr Heeralal Bharani M/s Bharat Heavy Electrical Limited Dr R. S. Bisht, CSIR - Central Building Research Institute Mr Rabi Shankar Prasad M/s Steel Authority of India, Centre for Engineering and Technology Mr Ravinder Sharma M/s Jindal Steel and Power Limited Mr J. B. Bhatt M/s Techno Industries Limited Mr Biplab Ghosh M/s TIL Mr G. L. Mirchandani M/s Unique Industrial Handlers Private Limited Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)	pending ballots of TC/96 and its subcommittees.
2	Terminology	<b>MED14/WG02</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 2</b> Mr Hemant Kumar M/s BEML Limited (Chair) Mr Niranjana Mazire M/s Electromech Material Handling Systems Dr R. S. Bisht, CSIR - Central Building Research Institute Mr Rabi Shankar Prasad M/s Steel Authority of India, Centre for Engineering and Technology Mr Ravinder Sharma M/s Jindal Steel and Power Limited Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)		
3	Selection of ropes	<b>MED14/WG03</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 3</b> NA		
4	Test Methods	<b>MED14/WG04</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 4</b> Mr Hemant Kumar M/s BEML Limited (Chair) Mr Rabi Shankar Prasad M/s Steel Authority of India,		

		Centre for Engineering and Technology Mr J. B. Bhatt M/s Techno Industries Limited Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)		
5	Use, operation and maintenance	<b>MED14/WG05</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 5</b> Mr Hemant Kumar M/s BEML Limited (Chair) Mr Shajahan, Indian Space Research Organization Mr Niranjana Mazire M/s Electromech Material Handling Systems Mr Heeralal Bharani M/s Bharat Heavy Electrical Limited Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)		
6	Mobile Cranes	<b>MED14/WG06</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 6</b> Mr Hemant Kumar M/s BEML Limited (Chair) Mr Biplab Ghosh M/s TIL Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)		
7	Tower Cranes	<b>MED14/WG07</b> <b>Scope: Ballots and meetings of ISO/TC 96/SC 7</b> Mr Hemant Kumar M/s BEML Limited (Chair) Mr Niranjana Mazire M/s Electromech Material Handling Systems Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)		
8	JIB Cranes	<b>MED14/WG08</b>		

		<p><b>Scope: Ballots and meetings of ISO/TC 96/SC 8</b>                  Mr Hemant Kumar M/s BEML Limited (Chair)                  Mr Niranjana Mazire M/s Electromech Material Handling Systems                  Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)</p>		
9	Bridge and gantry cranes	<p><b>MED14/WG09</b>  <b>Scope: Ballots and meetings of ISO/TC 96/SC 9</b>                  Mr Hemant Kumar M/s BEML Limited (Chair)                  Mr Shajahan, Indian Space Research Organization                  Mr Niranjana Mazire M/s Electromech Material Handling Systems                  Mr G. L. Mirchandani M/s Unique Industrial Handlers Private Limited                  Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)</p>		
10	Design Principles and Requirements	<p><b>MED14/WG10</b>  <b>Scope: Ballots and meetings of ISO/TC 96/SC 10</b>                  NA</p>		
11	Round Steel link Chains, Chains Slings, Components and accessories	<p><b>MED14/WG11</b>  <b>Scope: Ballots and meetings of ISO/TC 111, ISO/TC 111/SC 1 and ISO/TC 111/SC 3</b>                  Mr Hemant Kumar M/s BEML Limited (Chair)                  Mr Shajahan, Indian Space Research Organization                  Mr Pradip Chitlangia, M/s Indian Chain Private Limited                  Mr Shubham Yadav, Scientist 'C'/Deputy Director, BIS (MS)</p>	<p><b>MED14/Panel 11</b>  <b>Scope: Ballots and meetings of ISO/TC 111, ISO/TC 111/SC 1 and ISO/TC 111/SC 3</b>                  Mr Pradip Chitlangia, M/s Indian Chain Private Limited (Convener)                  Mr Shajahan, Indian Space Research Organization</p>	<p>The Panel has been constituted in the Standards Portal.   <i>The Committee may please note.</i></p>



			Mr Shubham Yadav, Scientist ‘C’/Deputy Director, BIS (MS)	
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*NOTE – The member secretary has been changed, The panel composition must be approved by the committee.*

*The Committee approved the two panels as above for corresponding ISO Committees.*

In pursuance to Item **2.2.1.(c)**, the Committee decided to invite M/s BHEL, M/s NTPC, M/s ISRO, M/s BEL, M/s SAIL, M/s COFMO (Railways). The Committee directed the Member Secretary to send an email to all members seeking contact details of government purchasing organisations within two weeks.

Letter sent on 16 Mar 2023

#### **BHEL**

Response received from BHEL, Trichy dated 12 Oct 1 2023 and 17 Nov 2023.

📎 Email\_BHEL\_TRICHY\_NOMINATION\_2023.pdf

Nomination updated on the portal.

Response received from Dr. K.S. Madhavan, BHEL, New Delhi dated 15 Jul 2023.

📎 Email\_bhel\_nomination\_15\_july\_2023.pdf

Nomination updated on the portal.

#### **NTPC**

Response received from NTPC 5 April 2023.

📎 20230413\_MED14\_NTPC Nomination.pdf

📎 SKM\_C454e23032813580.pdf

Nomination updated on the portal.

Termination letter sent to NTPC dated 24 Nov 2023.

#### **ISRO**

Response received from ISRO 11 April 2023.

📎 Email\_ISRO\_NOMINATION\_11\_APR\_2023.pdf

Nomination updated on the portal.

## **BEL**

Response awaited.

📎 Email\_12 jan 2024-part 1

📎 Email\_12 jan 2024-part 2.pdf

## **SAIL**

SAIL is already a member of the Committee.

## **COFMOW (Railways)**

Response awaited.

📎 Email\_12 jan 2024-part 1

📎 Email\_12 jan 2024-part 2.pdf

**2.2.2** The Committee decided to seek an update on nominations from the following members:

- a) M/s ABB India Limited, Bengaluru;
- b) M/s CSIR, Central Building Research Institute, Roorkee; (CBRI Colony Roorkee, Uttarakhand, 247667)
- c) M/s Heavy Engineering Corporation Ltd., Ranchi;(Plant plaza road, Dhurwa Ranchi, Jharkhand, 834004)
- d) M/s Jindal Steel and Power Limited, Raipur; (13 KM Stone, NH-06, G.E. Road, Mandir Hasaud, Raipur-492101 Chhattisgarh, India)
- e) M/s Konecranes And Demag Pvt Ltd., Pune; (No. 75, 2/3, Shikshak Nagar Survey no 91, Baner, Pune, Maharashtra 411045)
- f) M/s Mukand Ltd, Distt Thane;(Bhola Nagar, Kalwa, Thane, Maharashtra 400605) and
- g) M/s Ministry of Surface Transport, New Delhi (seek revised nominations from Ministry of Road Transport and Highways) (Ministry of Road Transport & Highways  
Transport Bhawan, 1, Parliament StreetNew Delhi-110001)

Please find below the updates on the above nominations;

### **JINDAL**

Nomination received from JINDAL Dated 10 May 2023

📎 Email\_JINDAL\_NOMINATION\_10\_MAY\_2023.pdf

Nomination updated on the portal.

### **EIL**

Nomination received from EIL Dated 19 May 2023

📎 Email\_EIL\_NOMINATION\_18\_MAY\_2023.pdf

Nomination updated on the portal.

### **ANUPAM**

Response received from Anupam 07 April 2023.

📎 Email\_ANUPAM\_07\_APR\_23\_NOMINATION.pdf

Nomination updated on the portal.

### **CSIR-CBRI**

Response received from CSIR dated 21 Sep 2023.

📎 Email\_CSIR\_CBRI\_NOMINATION\_21\_SEP\_2023.pdf

Nomination updated on the portal.

### **KONECRANES AND DEMAG PVT LTD**

KONECRANES is already a member of the Committee.

### **BHEL**

Response received from BHEL, Trichy dated 12 Oct 1 2023 and 17 Nov 2023.

📎 Email\_BHEL\_TRICHY\_NOMINATION\_2023.pdf

Nomination updated on the portal.

Response received from Dr. K.S. Madhavan, BHEL, New Delhi dated 15 Jul 2023.

■ Email\_bhel\_nomination\_15\_july\_2023.pdf

Nomination updated on the portal.

**MUKUND**

Response awaited.

**ABB**

Response awaited.

■ Email\_nomination mail\_28 march 2023.pdf

**HECL**

Response awaited.

### 2.2.3 Nominations Update

*a) Shri J. B. Bhatt, Techno Industries Limited, Ahmedabad, new nomination proforma sent dated 01 Jan 2024.*

*Mail received from J. B. Bhatt, dated 02 Jan 2024, organisation change request accepted "TACKLERS ENGINEERING PVT. LTD."*

Nomination updated on the portal.

*b) Response received from NTPC 5 April 2023.*

■ 20230413\_MED14\_NTPC Nomination.pdf

Nomination updated on the portal.

### 2.2.4 Co-option Requests received

Dr Mukulesh Debnath, Vice President (Structural), Taxmaco rail and engineering Ltd, Bangalore wants to join the committee. Mail received dated 28 Dec 2023.

Email ID – <[mukulesh.debnath@texmaco.in](mailto:mukulesh.debnath@texmaco.in)>

Phone. No. +91-3325691500

📎 Email\_co-option\_taxmaco\_28 dec 2023..pdf

### **2.2.5 Attendance Criteria**

As part of process reforms, each member organisation is expected to participate in at least 50 % of all the meetings conducted during a financial year and two consecutive meetings should not be missed by any member organisation starting from 2023-24. Failure to comply would cause termination of membership. Also, comments on the P-draft are compulsory for all the members.

*This is for the information of the committee.*

### **2.3 Programme of Work**

The present programme of work of the Cranes, Lifting chains and related equipment Sectional Committee, MED 14 is attached below.

📎 POW-MED14\_18\_JAN\_2024\_ARIF.pdf

*The committee may please note the information.*

#### **2.3.1 Standards under Quality Control Orders**

As of date, none of the Indian Standards under MED 14 are under any Quality Control Orders issued by the Government of India.

However, the following standards are proposed for Quality control orders;

1. Chain Pulley Block (IS 3832:2005)
2. Ratchet Lever Hoist (IS 11340:2020)
3. Hand Operated Universal Gearless Pulling and Lifting Machines (IS 5604:1984)

*The Committee may please provide their comments on the above standards and inform if any issue will be faced during the implementation of these QCOs and also identify the standards that can be proposed for notification under Quality Control Orders.*

### 3 SELECTION OF SUBJECTS/NEW SUBJECTS

The Committee proposed a subject on Fire Equipment related Hydraulic Lift or Scissor Lift. The Committee directed the Member Secretary to check up on any committee or any standard already done on this subject item.

Check for Indian or International standards on Fire Equipment related to Hydraulic Lift or Scissor Lift:


- 1) BS EN 1570-1:2011 - Safety requirements for lifting tables Lifting tables serving up to two fixed landings
- 2) IS 14130 : 1994 - Hydraulic lifting table - Specification

#### 3.1 Emerging Areas

As per the latest policy and guidelines, before any new subject is taken up for formulation of National Standard the following issues are to be examined by BIS.

- a) Whether the subject is financed by the proposer;
- b) Standards shall be user friendly; and
- c) Social needs with regards to safety, health and environment.

Only after assessing the above aspects will it be possible for BIS to consider the formulation of the Indian standard. The proposal should essentially be taken in the prescribed Performa, as a preliminary work item as given in **Annex-B**. When members propose in the Technical Committee (TC) meeting, they have to fill-in the Performa beforehand which is then considered by the TC.

 ANNEX-B-MED14.pdf

*The Committee may please note and suggest new subjects for standards formulation.*

**Following NWIP received by various stakeholders. The committee may please discuss and decide the way forward for the development of these standards(If it is under the scope of this committee);**

- 1) Telescopic ladder Requirements and test methods

### 4 INTERNATIONAL ACTIVITIES

India has membership on ISO committees as listed in Item 2.1 related to MED 14 being P-member, it is obligatory for India to vote on all the documents. The documents received from time to time are being sent to committee members for comments and voting done accordingly.

Standardisation of cranes, winches, lifting chains, sheaves, suspension gears, hooks, swivel and shackles.

**Liaison :** Coordination of work with following ISO Committees:

ISO #	Title	M-ship
<a href="#">ISO/TC 96</a>	Cranes	Permanent
<a href="#">ISO/TC 96/SC 2</a>	Terminology	Permanent
<a href="#">ISO/TC 96/SC 3</a>	Selection of wire ropes	Permanent
<a href="#">ISO/TC 96/SC 4</a>	Test methods	Permanent
<a href="#">ISO/TC 96/SC 5</a>	Use, operation and maintenance	Permanent
<a href="#">ISO/TC 96/SC 6</a>	Mobile cranes	Permanent
<a href="#">ISO/TC 96/SC 7</a>	Tower cranes	Permanent
<a href="#">ISO/TC 96/SC 8</a>	Jib cranes	Permanent
<a href="#">ISO/TC 96/SC 9</a>	Bridge and gantry cranes	Permanent
<a href="#">ISO/TC 96/SC 10</a>	Design principles and requirements	Permanent
<a href="#">ISO/TC 111</a>	Round steel link chains, chain slings, components and accessories	Permanent
<a href="#">ISO/TC 111/SC 1</a>	Chains and chain slings	Permanent
<a href="#">ISO/TC 111/SC 3</a>	Components and accessories	Permanent

#### 4.1 Standards published by ISO/IEC Committees

<b>45</b>	<b>33</b> Latest version of ISO adopted	<b>1</b> Older version of ISO adopted
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<b>11</b> ISO standards not adopted	<b>0</b> Indigenously developed Standards	<b>0</b> Amendment issued by ISO, not adopted
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Committee #	Total ISO Standards	Latest ISO adopted	Older ISO adopted	ISO not adopted	Amendment issued by ISO, not adopted	Indigenously developed standards
TC 96	1	1	0	0	0	0
TC 96/SC 2	4	2	0	2	1	0
TC 96/SC 3	3	2	0	1	0	0
TC 96/SC 4	5	1	0	4	0	0
TC 96/SC 5	14	8	0	6	0	0
TC 96/SC 6	14	6	1	7	3	0
TC 96/SC 7	16	6	1	9	1	0
TC 96/SC 8	16	4	1	11	0	0
TC 96/SC 9	15	2	2	11	0	0
TC 96/SC 10	9	5	0	4	0	0
TC 111	0	0	0	0	0	0
TC 111/SC 1	12	6	0	6	0	0



Committee #	Total ISO Standards	Latest ISO adopted	Older ISO adopted	ISO not adopted	Amendment issued by ISO, not adopted	Indigenously developed standards
TC 111/SC 3	7	0	1	6	1	0
<b>Total</b>	<b>111</b>	<b>40</b>	<b>6</b>	<b>65</b>	<b>5</b>	<b>0</b>

#### 4.2 List of ISO Standards and adoptions status

*Note: Color Legend*

- Red-Not adopted as Indian Standard
- Green-Latest version of ISO standard adopted as Indian Standard with amendments (if any)
- Yellow: Older version of ISO standard adopted or ISO standard adopted but amendment issued by ISO not adopted

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
<b>A Committee #: ISO/TC 96 Cranes</b>				
1	ISO 7363:1986	Cranes and lifting appliances — Technical characteristics and acceptance documents	Already adopted as Indian Standard under dual numbering	
<b>B Committee#: ISO/TC 96/SC 2 Terminology</b>				
1	ISO 2374:1983	Lifting appliances — Range of maximum capacities for basic models	Already adopted as Indian Standard under dual numbering	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
2	ISO 4306-1:2007	Cranes — Vocabulary — Part 1: General	Adopted as Indian Standard under dual numbering	
3	ISO 7296-1:1991/Amendment 1:1996	Cranes — Graphic symbols — Part 1: General	Adopted as Indian Standard under dual numbering, amendment not adopted	The Committee decided to adopt the amendment as an amendment to adopted Indian Standard. The Committee decided to send the document for wide-circulation for one month, and to send for printing in case no comments received during wide-circulation.
4	ISO 11994:1997	Cranes — Availability — Vocabulary	Not adopted as Indian Standard	
5	ISO/TS 15696:2012	Cranes — List of equivalent terms	Not adopted as Indian Standard	
<b>C Committee#: ISO/TC 96/SC 3 Selection of Ropes</b>				
1	ISO 4309:2017	Cranes — Wire ropes — Care and maintenance, inspection and discard	In the process of adoption as an Indian Standard under single numbering	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
2	ISO 16625:2013	Cranes and hoists — Selection of wire ropes, drums and sheaves	Adopted as Indian Standard under single numbering	
3	ISO/TS 23624:2021	Cranes — Safe use of high-performance fibre ropes in crane applications	Not adopted as Indian Standard	The Committee decided to circulate the document as P-Draft to committee members for 2 months. The decision for adoption will be taken by the Committee in the next meeting.
<b>D Committee#: ISO/TC 96/SC 4 Test Methods</b>				
1	ISO 4310:2009	Cranes — Test code and procedures	Adopted as Indian Standard under Single numbering	
2	ISO 11629:2004	Cranes — Measurement of the mass of a crane and its components	Not adopted as Indian Standard	
3	ISO 11630:1997	Cranes — Measurement of wheel alignment	Not adopted as Indian Standard	
4	ISO 13202:2003	Cranes — Measurement of velocity and time parameters	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
5	ISO 14518:2005	Cranes — Requirements for test loads	Not adopted as Indian Standard	
<b>E Committee#: ISO/TC 96/SC 5 Use, operation and maintenance</b>				
1	ISO 9926-1:1990	Cranes — Training of drivers — Part 1: General	Adopted as Indian Standard under dual numbering	
2	ISO 9927-1:2013	Cranes — Inspections — Part 1: General	Adopted as Indian Standard under dual numbering	
3	ISO 9928-1:2015	Cranes — Crane operating manual — Part 1: General	Adopted as Indian Standard under dual numbering	
4	ISO 12482:2014	Cranes — Monitoring for crane design working period	Adopted as Indian Standard under dual numbering	
5	ISO 15513:2000	Cranes — Competency requirements for crane drivers (operators), slingers, signallers and assessors	Adopted as Indian Standard under dual numbering	
6	ISO 16715:2014	Cranes — Hand signals used with cranes	Adopted as Indian Standard under dual numbering	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
7	ISO 23813:2007	Cranes — Training of appointed persons	Adopted as Indian Standard under dual numbering	
8	ISO 23853:2018	Cranes — Training of slingers and signallers	Adopted as Indian Standard under dual numbering	
9	ISO 9942-1:2015	Cranes — Information labels — Part 1: General	Not adopted as Indian Standard	
10	ISO 10973:1995	Cranes — Spare parts manual	Not adopted as Indian Standard	
11	ISO 12478-1:1997	Cranes — Maintenance manual — Part 1: General	Not adopted as Indian Standard	
12	ISO 12480-1:1997	Cranes — Safe use — Part 1: General	Not adopted as Indian Standard	
13	ISO 23814:2009	Cranes — Competency requirements for crane inspectors	Not adopted as Indian Standard	
14	ISO 23815-1:2007	Cranes — Maintenance — Part 1: General	Not adopted as Indian Standard	
<b>F Committee#: ISO/TC 96/SC 6 Mobile Cranes</b>				
1	ISO 4306-2:2012	Cranes — Vocabulary — Part 2: Mobile cranes	Adopted as Indian Standard under single numbering	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
2	ISO 7296-2:2020	Cranes — Graphical symbols — Part 2: Mobile cranes	Adopted as Indian Standard under dual numbering	
3	ISO 7752-2:2011	Cranes — Control layout and characteristics — Part 2: Basic arrangement and requirements for mobile cranes	Adopted as Indian Standard under dual numbering	
4	ISO 8686-2:2018	Cranes — Design principles for loads and load combinations — Part 2: Mobile cranes	Adopted as Indian Standard under single numbering	
5	ISO 9928-2:2014	Cranes — Crane operating manual — Part 2: Mobile cranes	Adopted as Indian Standard under dual numbering	
6	ISO 11662-1:1995	Mobile cranes — Experimental determination of crane performance — Part 1: Tipping loads and radii	Adopted as Indian Standard under dual numbering	
7	ISO 4301-2:2020	Cranes — Classification — Part 2: Mobile cranes	Older version of ISO 4301-2 : 2009 and 4301-2 : 1985 already adopted as Indian Standard under dual numbering	<b>MED/14/22076</b> Revised standard in the process of adoption under dual numbering.

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
8	ISO 4305:2014 / Amd 1:2016	Mobile cranes — Determination of stability	Adopted as Indian Standard under dual numbering (Adopted as Indian Standard under dual numbering, amendment not adopted)	<b>MED/14/22105</b> This standard is already adopted as Indian Standard under dual numbering as IS 14469:2018 / ISO 4305:2014 Amendment No. 1 to the ISO adopted standard in the process of adoption as an amendment to Indian Standard.
9	ISO 15442:2012 / / Amd 1:2015	Cranes — Safety requirements for loader cranes	Adopted as Indian Standard under single numbering (Adopted as Indian Standard under single numbering, amendment not adopted)	The Committee decided to adopt the amendment as an amendment to adopted Indian Standard. The Committee decided to send the document for wide-circulation for one months, and to send for printing in case no comments received during wide-circulation.
10	ISO 8566-2:2016	Cranes — Cabins and control stations — Part 2: Mobile cranes	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
11	ISO 10245-2:2014/ Amd 1:2015	Cranes — Limiting and indicating devices — Part 2: Mobile cranes	Not adopted as Indian Standard	
12	ISO 10972-2:2009	Cranes — Requirements for mechanisms — Part 2: Mobile cranes	Not adopted as Indian Standard	
13	ISO 11660-2:2015	Cranes — Access, guards and restraints — Part 2: Mobile cranes	Not adopted as Indian Standard	
14	ISO 11661:2022	Mobile cranes — Presentation of rated capacity charts	Not adopted as Indian Standard	
15	ISO 11662-2:2014	Mobile cranes — Experimental determination of crane performance — Part 2: Structural competence under static loading	Not adopted as Indian Standard	
16	ISO 13200:1995	Cranes — Safety signs and hazard pictorials — General principles	Not adopted as Indian Standard	
17	ISO/TR 19961:2010	Cranes — Safety code on mobile cranes	Not adopted as Indian Standard	
<b>G Committee#: ISO/TC 96/SC 7 Tower Cranes</b>				
1	ISO 7752-3:2013	Cranes — Control layout and characteristics — Part 3: Tower cranes	Adopted as Indian Standard under dual numbering	



#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
2	ISO 8686-3:2018	Cranes — Design principles for loads and load combinations — Part 3: Tower cranes	Adopted as Indian Standard under Single numbering	
3	ISO 9926-3:2016	Cranes — Training of operators — Part 3: Tower cranes	Adopted as Indian Standard under dual numbering	
4	ISO 9927-3:2019	Cranes — Inspections — Part 3: Tower cranes	Adopted as Indian Standard under dual numbering	
5	ISO 4306-3:2016	Cranes — Vocabulary — Part 3: Tower cranes	Adopted as Indian Standard under dual numbering	
6	ISO 7296-3:2006	Cranes — Graphical symbols — Part 3: Tower cranes	Adopted as Indian Standard under dual numbering	
7	ISO 7752-1:2010/ Amd 1 : 2012	Cranes — Control layout and characteristics — Part 1: General principles	(Adopted as Indian Standard under dual numbering, amendment not adopted)	
8	ISO 4301-3:2021	Cranes — Classification — Part 3: Tower cranes	Older version of ISO 4301-3 : 1993 already adopted as Indian Standard under dual numbering	<b>MED 14 (18593)</b> Revised standard in the process of adoption under dual numbering.

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
9	ISO 8566-1:2010	Cranes — Cabins and control stations — Part 1: General	Not adopted as Indian Standard	
10	ISO 8566-3:2010	Cranes — Cabins and control stations — Part 3: Tower cranes	Not adopted as Indian Standard	
11	ISO 9942-3:2020	Cranes — Information labels — Part 3: Tower cranes	Not adopted as Indian Standard	
12	ISO 10245-3:2019	Cranes — Limiting and indicating devices — Part 3: Tower cranes	Not adopted as Indian Standard	
13	ISO 10972-3:2003	Cranes — Requirements for mechanisms — Part 3: Tower cranes	Not adopted as Indian Standard	
14	ISO 11660-1:2008	Cranes — Access, guards and restraints — Part 1: General	Not adopted as Indian Standard	
15	ISO 11660-3:2008	Cranes — Access, guards and restraints — Part 3: Tower cranes	Not adopted as Indian Standard	
16	ISO 12480-3:2020	Cranes — Safe use — Part 3: Tower cranes	Not adopted as Indian Standard	
17	ISO/TR 27245:2007	Cranes — Tower cranes — International Standards for design, manufacture, use and maintenance requirements and recommendations	Not adopted as Indian Standard	
<b>H Committee#: ISO/TC 96/SC 8 JIB Cranes</b>				

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
1	ISO 4301-4:1989	Cranes and related equipment — Classification — Part 4: Jib cranes	Adopted as Indian Standard under dual numbering	
2	ISO 9374-1:1989	Cranes — Information to be provided — Part 1: General	Adopted as Indian Standard under dual numbering	
3	ISO 9374-4:1989	Cranes — Information to be provided — Part 4: Jib cranes	Adopted as Indian Standard under dual numbering	
4	ISO 7752-4:1989	Cranes — Controls — Layout and characteristics — Part 4: Jib cranes	Adopted as Indian Standard under dual numbering	
5	ISO 8686-4:2005	Cranes — Design principles for loads and load combinations — Part 4: Jib cranes	Older version of ISO 8686-4 : 2004 already adopted as Indian Standard under dual numbering	The Committee decided to circulate the revised ISO version to Committee members for one month. If no comments received, the revised ISO standard to be adopted by cwide-circulating it for one month. The Committee also decided to send the document for printing in case no

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
				comments received during wide-circulation.
6	ISO 4306-4:2020	Cranes — Vocabulary — Part 4: Jib cranes	Not adopted as Indian Standard	
7	ISO 8566-4:1998	Cranes — Cabins — Part 4: Jib cranes	Not adopted as Indian Standard	
8	ISO 10245-1:2021	Cranes — Limiting and indicating devices — Part 1: General	Not adopted as Indian Standard	
9	ISO 10245-4:2004	Cranes — Limiting and indicating devices — Part 4: Jib cranes	Not adopted as Indian Standard	
10	ISO 10245-4:2004/ Cor 1:2006	Cranes — Limiting and indicating devices — Part 4: Jib cranes — Technical Corrigendum 1	Not adopted as Indian Standard	
11	ISO 10972-4:2007	Cranes — Requirements for mechanisms — Part 4: Jib cranes	Not adopted as Indian Standard	
12	ISO 11660-4:2012	Cranes — Access, guards and restraints — Part 4: Jib cranes	Not adopted as Indian Standard	
13	ISO 12480-4:2007	Cranes — Safe use — Part 4: Jib cranes	Not adopted as Indian Standard	
14	ISO 12488-1:2012	Cranes — Tolerances for wheels and travel and traversing tracks — Part 1: General	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
15	ISO 12488-4:2004	Cranes — Tolerances for wheels and travel and traversing tracks — Part 4: Jib cranes	Not adopted as Indian Standard	
16	ISO/TR 25599:2005	Cranes — Jib cranes — International Standards for design, manufacturing, use and maintenance requirements and recommendations	Not adopted as Indian Standard	
<b>I Committee#: ISO/TC 96/SC 9 Bridge and gantry cranes</b>				
1	ISO 4301-5:1991	Cranes — Classification — Part 5: Overhead travelling and portal bridge cranes	Adopted as Indian Standard under dual numbering	
2	ISO 8686-5:2017	Cranes — Design principles for loads and load combinations — Part 5: Overhead travelling and portal bridge cranes	Adopted as Indian Standard under single numbering	
3	ISO 7752-5:2021	Cranes — Control layout and characteristics — Part 5: Bridge and gantry cranes	Older version of ISO 7752-5:1985 already adopted as Indian Standard under dual numbering	<b>MED 14 (22074)</b> Revised standard in the process of adoption under dual numbering
4	ISO 9374-5:2021	Cranes — Information to be provided — Part 5: Overhead travelling cranes and portal bridge cranes	Older version of ISO 9374-5 : 1991 already adopted as Indian Standard under dual numbering	<b>MED 14 (18594)</b> Revised standard in the process of adoption under dual numbering

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Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
5	ISO 4306-5:2005	Cranes — Vocabulary — Part 5: Bridge and gantry cranes	Not adopted as Indian Standard	
6	ISO 8566-5:2017	Cranes — Cabins and control stations — Part 5: Overhead travelling and portal bridge cranes	Not adopted as Indian Standard	
7	ISO 9927-5:2017	Cranes — Inspections — Part 5: Bridge and gantry cranes, including portal and semi-portal cranes and their supporting structures	Not adopted as Indian Standard	
8	ISO 10245-5:1995	Cranes — Limiting and indicating devices — Part 5: Overhead travelling and portal bridge cranes	Not adopted as Indian Standard	
9	ISO 10972-1:1998	Cranes — Requirements for mechanisms — Part 1: General	Not adopted as Indian Standard	
10	ISO 10972-5:2006	Cranes — Requirements for mechanisms — Part 5: Bridge and gantry cranes	Not adopted as Indian Standard	
11	ISO 11660-5:2001	Cranes — Access, guards and restraints — Part 5: Bridge and gantry cranes	Not adopted as Indian Standard	
12	ISO 12210:2021	Cranes — Anchoring devices for in-service and out-of-service conditions	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
13	ISO/TR 16880:2004	Cranes — Bridge and gantry cranes — International Standards for design and manufacturing requirements and recommendations	Not adopted as Indian Standard	
14	ISO 17096:2015	Cranes — Safety — Load lifting attachments	Not adopted as Indian Standard	
15	ISO 22986:2007	Cranes — Stiffness — Bridge and gantry cranes	Not adopted as Indian Standard	
<b>J Committee#: ISO/TC 96/SC 10 Design Principles and Requirements</b>				
1	ISO 4301-1:2016	Cranes — Classification — Part 1: General	Adopted as Indian Standard under dual numbering	
2	ISO 4302:2016	Cranes — Wind load assessment	Adopted as Indian Standard under Single numbering	
3	ISO 4304:1987	Cranes other than mobile and floating cranes — General requirements for stability	Adopted as Indian Standard under dual numbering	
4	ISO 8686-1:2012	Cranes — Design principles for loads and load combinations — Part 1: General	Adopted as Indian Standard under Single numbering	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
5	ISO 20332:2016	Cranes — Proof of competence of steel structures	Adopted as Indian Standard under dual numbering	
6	ISO 11031:2016	Cranes — Principles for seismically resistant design	Not adopted as Indian Standard	
7	ISO 16881-1:2005	Cranes — Design calculation for rail wheels and associated trolley track supporting structure — Part 1: General	Not adopted as Indian Standard	
8	ISO 17440:2014	Cranes — General design — Limit states and proof of competence of forged steel hooks	Not adopted as Indian Standard	
9	ISO 23778:2022	Proof of competence of hydraulic cylinders in crane applications	Not adopted as Indian Standard	
<b>K Committee#: ISO/TC 111/SC 1 Chains and Chain slings</b>				
1	ISO 1834:1999	Short link chain for lifting purposes — General conditions of acceptance	Adopted as Indian Standard under Single numbering	
2	ISO 3076:2012	Round steel short link chains for general lifting purposes — Medium tolerance sling chains for chain slings — Grade 8	Adopted as Indian Standard under Single numbering	






#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
3	ISO 3077:2001	Short-link chain for lifting purposes — Grade T, (types T, DAT and DT), fine-tolerance hoist chain	Adopted as Indian Standard under Single numbering	
4	ISO 7592:1983	Calibrated round steel link lifting chains — Guidelines to proper use and maintenance	Adopted as Indian Standard under dual numbering	
5	ISO 16872:2015	Round steel short link chains for lifting purposes — Fine tolerance hoist chains for hand operated chain hoists — Grade VH	Adopted as Indian Standard under dual numbering	
6	ISO 16877:2015	Round steel short link chains for lifting purposes — Fine tolerance hoist chains for hand operated chain hoists — Grade TH	Adopted as Indian Standard under dual numbering	
7	ISO 1835:2018	Round steel short link chains for lifting purposes — Medium tolerance sling chains — Grade 4, stainless steel	Not adopted as Indian Standard	
8	ISO 3056:1986	Non-calibrated round steel link lifting chain and chain slings — Use and maintenance	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
9	ISO 4778:2019	Round steel short link chains for lifting purposes — Chain slings of welded construction — Grade 8	Not adopted as Indian Standard	
10	ISO 7593:1986	Chain slings assembled by methods other than welding — Grade T(8)	Not adopted as Indian Standard	
11	ISO/TR 21704:2017	Toughness of round steel link chains — Test with sub-size specimens	Not adopted as Indian Standard	
12	ISO/TR 23602:2005	Toughness of chain steels	Not adopted as Indian Standard	
<b>L Committee#: ISO/TC 111/SC 3 Component and accessories</b>				
1	ISO 2415:2022	Forged shackles for general lifting purposes — Dee shackles and bow shackles	Older version of ISO 2415: 2004 already adopted as Indian Standard under dual numbering	
2	ISO 1837:2003	Lifting hooks — Nomenclature	Not adopted as Indian Standard	
3	ISO 16798:2004	Links of Grade 8 for use with slings	Not adopted as Indian Standard	
4	ISO 8539:2009	Forged steel lifting components for use with Grade 8 chain	Not adopted as Indian Standard	
5	ISO 7597:2013	Forged steel lifting hooks with latch, grade 8	Not adopted as Indian Standard	

#	A	B	C	D
Sl No.	ISO No.	Title	Adoption Status (Degree of Equivalence)	Decisions during the 22nd/23rd meeting
6	ISO 4779:2021	Chain components for lifting purposes — Forged eye hook with point and latch — Grade 4, stainless steel, solution annealed	Not adopted as Indian Standard	
7	ISO 3266:2010 Amd 1:2015	Forged steel eyebolts grade 4 for general lifting purposes	Not adopted as Indian Standard	
8	ISO 2308:1972	Hooks for lifting freight containers of up to 30 tonnes capacity — Basic requirements	Not adopted as Indian Standard	

**4.3 The Committee decided the following:**

Sl No.	Proposer	New subject item	Proposal received	Committee Decision	ATR
1.	M. Arthanari Eswaran, BHEL, Tiruchirappalli.	[MED14, SR, ISO 11630:1997 (vers 4), 19561] National Opinion of MED14 on ISO Ballot 'Cranes — Measurement	This standard may please be put up before the committee for adopting it nationally since it gives good guidelines for wheel alignment measurement of cranes.	Mr Ravindra Sharma, M/s Jindal Steel, Mr Preet H Heri, M/s KITO Bengaluru, Mr Shyam M. Gurnani, M/s Furnace and Foundry Mumbai informed that the standard is not complete as only applicable for 4 wheel cranes.  The Committee directed the	Reminder was sent to committee on 13 Mar 2023 to seek opinion of other members.  ■ 20230313_MED1... No response received till date 27 March 2023. Hence, the document is not to be adopted as IS.

		of wheel alignment' hosted by ISO/TC 96/SC 4		MS to circulate and seek opinion of other members through mail within two weeks. In case no response received the standard is not to be adopted in its present share as decided by the committee.	
2.	Deepak Desai	[SR] Cranes -- Inspections -- Part 5: Bridge and gantry cranes [N 416 / ISO 9927-5 : 2017]	Can we not adopt this standard for India as this is giving maintenance guidelines for cranes?	The Committee decided to refer this item to the Safety Panel (Panel 09).	The item sent to Safety Panel Item No 9  Email_MED14_P... Mail sent to Mr Shyam M. Gurnani, M/s Furnace and Foundry Equipment Company, Mumbai and Mr Anand Mitkari sir, M/s Mukand Limited, Thane dated 30 May 2023, and also reminder mail dated 18 Jan 2024, no response received from it.  Email_30 may 20...  Email_18 jan 202... <i>No response received.</i>
3.	Deepak Desai	[MED14, SR, ISO 14518 : 2005 (vers 3), 38496]	In general we can use this standard as guidance for test load calibrations. At least	Prima facie the committee decided to adopt the standard. The Committee directed MS to circulate the	Reminder was sent to committee on 13 Mar 2023 to seek opinion of other members.

		National Opinion of MED14 on ISO Ballot 'Cranes — Requirements for test loads' hosted by ISO/TC 96/SC 4	as reference standards.	standard to members for two weeks for any additional comments.	After 27 Mar 2023, prepare NF for WC for 2 months if no Comments received.  ■ 20230313_MED1...  No comments received till given date. Document to be prepared for NF and WC for 2 Months.  <i>Doc. No. 24686 generated. National Foreword circulated for committee members on dated 18 Jan 2024.</i>
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### 4.3 Indian Standards where base ISO/IEC standard revised

SI No	IS/ISO	Title	Revised ISO document	Remarks
1	IS/ISO 2415: 2004  ■ IS_I...	Forged shackles for general lifting purposes - Dee shackles and bow shackles	ISO 2415:2022 Forged shackles for general lifting purposes Dee shackles and bow shackles  ■ ISO 2415;2022 ed.4 - id.8284...	<i>The document is currently under WC stage.</i>

### 4.4 Panel for ISO/IEC-related work

Panel 10 and Panel 11 have been formulated to cater to work related to ISO ballots and ISO meetings.

*The Committee may please note.*

## ITEM 5 REVIEW OF PUBLISHED INDIAN STANDARD

As an ongoing activity, the Sectional Committee reviews the Indian Standards formulated by it at an interval of five years from the date of publication. During review, the committee may decide either to reaffirm or to revise/withdraw the standards based on the latest technology available on the subject at the time of review. Options available are:

- a) Revise
- b) Amend
- c) Withdraw
- d) Reaffirm (for adopted standards only)
- e) Reaffirm and Archive\*

BIS Management is very much concerned about revision of Standards based on latest technology and their utilisation by concerned stakeholders. It has been observed that many standards have been published long back and there is no change in the specification through amendment/revision. It is not known whether these standards are being used by anyone. Therefore, the technical committee is requested to examine whether these standards may be withdrawn if they cover either obsolete technology or are not used in the country. Accordingly, the list of the standard along with their base standard and the status of the base standard is mentioned below which needs review by the committee.

**5.1 Archiving of Standards:** In cases where the ballot is due for review and the Committee feels the document is not to be revised due to reason either *there is no latest development in the standard* or the *Committee composition doesn't have the requisite expertise to decide on the subject matter*; then, the document is to be decided for **Reaffirm and Archive**.

The following standards have been identified by the MS for Archiving. The committee may please discuss and decide;

SI No.	IS Number	IS Title	Last Reaffirmation/Revision Year	Due for Review (Put last date of the month i.e 31 December 2025)
1	IS 6549 : 1972	Glossary of terms used in connection with lifting tackle	2020	31-Oct-2025
2	IS 6498 : 1971	Glossary of terms used in connection with pulley blocks	2020	31-Oct-2025
3	IS 4594 : 1968	Code of practice for design of portal and semi - Portal wharf cranes (Electrical)	2020	31-Oct-2025
4	IS 13058 : 1991/ISO 7592:1983	Calibrated round steel link lifting chains - Guidelines for proper use and maintenance	2020	31-Oct-2025
5	IS 13558 (Part 4) : 1993/ISO 7752-4:1989	Cranes - Controls - Layout and characteristics: Part 4 jib cranes	2023	29-Feb-2028
6	IS 13559 (Part 1) : 1993/ISO 9374-1:1989	Cranes - Information to be provided: Part 1 general	2023	29-Feb-2028
7	IS 13559 (Part 4) : 1992/ISO 9374-4:1989	Cranes - Information to be provided: Part 4 jib cranes	2023	29-Feb-2028
8	IS 14471 : 1997/ISO 7363:1986	Cranes and lifting appliances - Technical characteristics and acceptance documents	2023	29-Feb-2028
9	IS 6217 : 1982/ISO 3075-1:1980	Specification for short link chain, grade S (6), non - Calibrated for lifting purposes (First Revision)	2018	Recommended for withdrawal
10	IS 6296 : 1983	Specification for short link chain grade S(6) calibrated for pulley blocks and other lifting appliances (First Revision)	2018	31-Mar-2023
11	IS 6511 : 1997/ISO 2374:1983	Lifting appliances - Range of maximum capacities for basic models (First Revision)	2023	29-Feb-2028

## 5.2 Documents under process

### 5.2.1 Docs in Development

SI No.	Document Number	IS Number	Document Title	Document Type	Document Stage	Last Action Date	Remarks
1	MED/14/24111	IS 11340: 2020	Ratchet Lever Hoist - Specification (First Revision) Amendment-1	Amendment	WC-Draft	16-01-2024	The document has completed WC time.
2	MED/14/24553	IS/ISO 2415: 2004 (Identical To: ISO 2415 : 2022)	Forged Shackles For General Lifting Purposes Dee Shackles And Bow Shackles (First Revision)	Revision	WC-Draft	02-02-2024	The document has completed WC time.
3	MED/14/24686	(Identical To: ISO 14518 : 2005)	Cranes Requirements For Test Loads	New	WC-Draft	02-02-2024	The document has completed WC time.

*The Committee may please approve the above documents for printing as all the documents have already completed date for commenting.*

### 5.2.2 Docs in Print

SI No	Document Number	IS Number	Document Title	Document Type	Document Stage	Last Action Date	Remarks
1.	MED/14/22134	IS 3109 : Part 1: 1982	Short Link Chain, Grade M (4) - Specification Part 1 Non-Calibrated Load Chain for Lifting Purposes (Third Revision)	Revision	Ready for Gazette	17-01-2024	
2.	MED/14/22105	IS 14469: 2018	Mobile cranes - Determination of stability (First Revision) (Amendment - 1)	Amendment	Ready for Gazette	17-01-2024	

*The Committee may please note.*

## 5.3 Periodic 5-yearly review



**Standards due for review in next Financial Year (2024-25)**

SI No.	IS/ISO No.	Title	Due on	Committee	Mode
1.	IS 11340 : 2020	Ratchet Lever Hoist — Specification (First Revision)	March, 2025	MED14	The committee may please decide the mode of execution.
2.	IS 3177 : 2020	Electric Overhead Travelling Crane and Gantry Crane for all Applications — Code of Practice (Third Revision)	March, 2025	MED14	
3.	IS 4573 : 2020	Power Driven Mobile Cranes — Specification (Second Revision)	March, 2025	MED14	
4.	IS 15419 : 2004	Jib cranes - Code of practice	April, 2024	MED14	
5.	IS 8324 : 1988	Code of practice for safe use and maintenance on non - Calibrated round steel link lifting chains and chain slings (First Revision)	April, 2024	MED14	
6.	IS/ISO 8686-1 : 2012	Cranes - Design principles for loads and load combinations: Part 1 general (First Revision)	April, 2024	MED14	ISO
7.	IS/ISO 1834 : 1999	Short link chain for lifting purposes - General conditions of acceptance	April, 2024	MED14	ISO
8.	IS/ISO 3077 : 2001	Short link chain for lifting purposes grade t (types t, oat and dt), fine-tolerance hoist chain	April, 2024	MED14	ISO
9.	IS/ISO 3076 : 2012	Round steel short link chains for general lifting purposes - Medium tolerance sling chains for chain slings - Grade 8 (First Revision)	April, 2024	MED14	ISO
10.	IS/ISO 2415 : 2004	Forged shackles for general lifting purposes - Dee shackles and bow shackles	April, 2024	MED14	Under Printing Stage
11.	IS/ISO 4306-2 : 2012	Cranes - Vocabulary: Part 2 mobile cranes (Second Revision)	April, 2024	MED14	ISO
12.	IS/ISO 4310 : 2009	Cranes - Test code and procedures	April, 2024	MED14	ISO
13.	IS/ISO 8686-4 :	Cranes - Design principles for loads and load	April, 2024	MED14	ISO

2005	combinations: Part 4 Jib cranes			
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**For SI No. 6 to 13 (Except Sr. No. 10 which is under the printing stage) there is no change in the ISO base standard therefore the committee may decide to reaffirm these standards.**

**Also the Committee may decide the mode of execution of revision of standards from SI No. 1 to 5.**

#### 5.4 Review of Pre-2000 Standards

SI No.	IS No	Title	Due on	Remarks
1	IS 10131 : 1992 Reviewed In : 2023	Link chain ends and chain bows for bucket elevators - Specification (First Revision)	December, 2028	
2	IS 13058 : 1991 ISO 7592:1983 Reviewed In : 2020	Calibrated round steel link lifting chains - Guidelines for proper use and maintenance	December, 2025	
3	IS 13156 : 1991 Reviewed In : 2020	Sheave pulley blocks for wire rope - Specification	December, 2025	
4	IS 13308 : 1992 Reviewed In : 2023	Lifting appliances - Sheaves - Technical supply condition	December, 2028	
5	IS 13367 (Part 1) : 1992 Reviewed In : 2023	Safe use of cranes - Code of practice : Part 1 general	December, 2028	
6	IS 13558 (Part 5) : 1993/ISO 7752-5:1985 Reviewed In : 2018	Cranes - Controls - Layout and characteristics: Part 5 overhead travelling cranes and portal bridge cranes	December, 2023	
7	IS 13834 (Part 2) : 1993ISO 4301-2:1985 Reviewed In : 2018	Cranes - Classification: Part 2 mobile cranes	December, 2023	IS 13834 (Part 2): 2023 ISO 4301-2: 2020 published.
8	IS 13834 (Part 3) : 1995ISO 4301-3:1993 Reviewed In : 2020	Cranes - Classification: Part 3 tower cranes	December, 2025	

9	IS 14472 (Part 5) : 1997ISO 9374-5:1991 Reviewed In : 2018	Cranes - Information to be provided Part 5 Overhead travelling cranes and portal bridge cranes	December, 2023	
10	IS 2429 (Part 1) : 1987 Reviewed In : 2023	Specification for round steel short link chains (Electric Butt Welded), grade L(3): Part 1 Non - Calibrated load chain for lifting purposes (Third Revision)	December, 2028	
11	IS 2759 : 1969 Reviewed In : 2022	Specification for higher tensile steel point hooks for use with wire rope thimbles	December, 2027	
12	IS 2760 : 1980 Reviewed In : 2020	Specification for steel chain slings (First Revision)	December, 2025	
13	IS 3109 (Part 1) : 1982 Reviewed In : 2023	Specification for short link chain, grade M (4): Part 1 non - Calibrated load chain for lifting purposes (Second Revision)	December, 2028	
14	IS 3938 : 1983 Reviewed In : 2023	Specification for electric wire rope hoists (Second Revision)	December, 2028	
15	IS 4164 : 1976 Reviewed In : 2020	Specification for Lifting `C' Hooks with Eye - Capacity up to 25 Tonnes	December, 2025	
16	IS 4178 : 1967 Reviewed In : 2020	Specification for eye nuts with collars	December, 2025	
17	IS 4190 : 1984 Reviewed In : 2020	Specification for eye bolts with collars (First Revision)	December, 2025	
18	IS 4594 : 1968 Reviewed In : 2020	Code of practice for design of portal and semi - Portal wharf cranes (Electrical)	December, 2025	
19	IS 5604 : 1984 Reviewed In : 2020	Specification for hand - Operated universal gearless pulling and lifting machines (First Revision)	December, 2025	
20	IS 5749 : 1970 Reviewed In : 2023	Specification for forged ramshorn hooks	December, 2028	
21	IS 6217 : 1982 Reviewed In : 2018	Specification for short link chain, grade S (6), non - Calibrated for lifting purposes (First Revision)	December, 2023	Recommended for withdrawal
22	IS 6296 : 1983 Reviewed In : 2018	Specification for short link chain grade S(6) calibrated for pulley blocks and other lifting appliances (First Revision)	December, 2023	
23	IS 6498 : 1971 Reviewed In : 2020	Glossary of terms used in connection with pulley blocks	December, 2025	
24	IS 6521 (Part 1) : 1972	Code of practice for design of tower cranes: Part 1 static and rail mounted	December,	

	Reviewed In : 2020		2025	
25	IS 6549 : 1972 Reviewed In : 2020	Glossary of terms used in connection with lifting tackle	December, 2025	
26	IS 7847 : 1975 Reviewed In : 2020	General characteristics of lifting hooks	December, 2025	
27	IS 7865 : 1975 Reviewed In : 2020	General requirements of & tonne hooks for lifting ISO series 1 freight containers of up to 30 tonnes capacity	December, 2025	
28	IS 8324 : 1988 Reviewed In : 2019	Code of practice for safe use and maintenance on non - Calibrated round steel link lifting chains and chain slings ( First Revision)	December, 2024	
29	IS 9507 : 1979 Reviewed In : 2020	Specification for general purpose electric power driven winches for lifting and hauling	December, 2025	
30	IS/ISO 1834 : 1999 Reviewed In : 2019	Short link chain for lifting purposes - General conditions of acceptance	December, 2024	

**SI No. (1-3,6-8)** The Committee decided to revise these documents with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.

**Draft will be circulated to committee members within 1 month time.**

**SI No. 4** The Committee directed the Panel 06 to meet next on 22 Feb 2023 to finalise the draft. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments received during any stage.

**Draft will be circulated to committee members within 1 month time.**

**SI No. 7 Published In December 2023.**

**MED 14 Panel 6 Date**

SI No.	Subject	Date
1	02nd meeting of Panel 06 and Panel 09 under MED 14	21-03-2023
2	First Meeting of Panel for revision of IS 3938 and IS 9507 and Discussion	22-02-2023

on Safety Aspects of Cranes	
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**SI No. 5** The Committee decided to revise the document based on the draft from Mr Sandeep D Bhattad, M/s Kone Cranes, New Delhi to be provided by Feb 2023. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.

The follow-up mail was sent to Mr. Sandeep D Bhattad on 07 Mar 2023.

■ 20230307\_MED14\_ITEM 4.1 SI No 5 Mr. Sandeep D bhattad.pdf

*As Mr Sandeep Bhattad Joined from M/s Kone Cranes has now Joined M/s Mo Group and has requested for co-options for his new nomination.*

■ 20230315\_MED14\_Mr Bhattad\_New Company Joining.pdf

*Nomination letter sent to Mr Bhattad.*

*Call 1: Mr Bhattad said he will send the performa by this week or next as he is travelling. 20 Apr 2023.*

■ 20230420\_MED14\_Letter to Sandeep Bhattad for nomination for MO Group.pdf

*Date 24 April 2023 Nomination not received yet.*

*Reminder sent Dated 09 May 2023 to Mr Bhattad for nomination of Mo Group.*

■ 20230509\_MED14\_SandeepBhattad Reminder for Nomination.pdf

*Call Dated 09 May 2023, He said he was travelling out of country so he was not able to communicate. Today he will send the data for principle member and for alternate member he will send after sometime.*

*Nomination Received Dated 09 May 2023.*

■ 20230509\_MED14\_Sandeep\_Bhattad\_Nomination\_Mail.pdf

■ 20230509\_MED14\_Sandeep\_Bhattad\_Nomination.pdf

**SI No. 9** The Committee decided to revise the document based on the draft received from Mr Rohit Chitlangia, M/s Indian Chains The Committee invited comments from members till 14 Feb 2023, if any, to be forwarded to Mr Rohit Chitlangia, M/s Indian Chains for providing the finalised draft. The draft to be circulated to the committee for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments received during any stage.

*As No Comments were received 13 Mar 2023, The Document will be sent for P Draft-circulation for 15 Days.*

**SI No. (10,11)** The Committee decided to propose these standards for withdrawal to MEDC.

Email has been sent to MEDC for withdrawal of the documents on 06 Mar 2023.

■ 20230306\_MED14\_ITEM5.1 SI 10 and 11 MEDC withdrawal.pdf

**SI No. (12-26)** The committee decided to reaffirm the standards mentioned by Sr. No. 12-26 in the previous meeting. However, in the latest practice of standardization, all the pre-2000 standards are being published with the latest year after making editorial changes, at least if no technical changes are required.

The committee may decide to approve the wide circulation of these standards after making editorial changes for 60 days as no technical changes are required.

**SI No. (27-30)** The Committee decided to adopt the revised version by revising the existing Indian Standard, and to wide-circulate this standard for one month and to send for printing, in case, no comments received during wide-circulation.

#### **Pre-2000 documents under review by Technical Department (Refer Agenda Table)**

**SI No. 1-3, 6-10 and 12-15** The Committee decided to revise these documents with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.

**SI No. 4** See Item No. 6.1, SI No. 1

*SI No. 5 See Item No 6.1 SI 5*

*SI No. 11* The Committee decided to revise these documents with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage. The Committee also delegated the technical revision of this standard to Panel 06.

**5.5 New Standards to be taken up/already under progress**

*The Committee may decide new standards to be taken up for formulation in 2024-25.*

**5.6 Standards with Research**

BIS has acknowledged the role of research in development as well as revision of Indian Standards. DG, BIS during meeting on process reforms in Standards Formulation activity has emphasised on obtaining and recording empirical data in support of technical provisions included while formulating or revising standards.

*The following projects are allotted in MED 14 as on date;*

Sr. No.	Project Code	Title of the project	Committee No.	Project awarded to
1	MED 0153	Study of latest technological developments and practices in the life cycle of Non-Calibrated round steel link lifting chains and chain slings.	MED 14	Dr Md. Sikander Azam IIT(ISM) Dhanbad
2	MED 0148	Study of latest technological developments and practices in the life cycle of eye nut with collar for lifting purposes.	MED 14	Dr Md. Sikander Azam IIT(ISM) Dhanbad

**ITEM 6 ACTION ARISING OUT OF THE PREVIOUS MEETING**

**6.1** The summary of decisions on action taken of the minutes of last meeting is given below:

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<b>1. IS 4594 ‘Code of practice for design of portal and semi portal wharf cranes (electrical)’</b>			
<p>Revision draft shall be put under wide circulation for 2 months under Doc: [MED 14 (18600)]. The committee noted the information. If no comments is received, document shall be sent for printing.</p>	<p>Document is being prepared based on a draft received from Shri Anand Mitkari, M/s Mukund Limited, Thane.</p> <p><a href="#">IS 4594 draft From Shri Anand Mitkari.docx</a></p>	<p>The Committee decided to revise the standard based on draft received along with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments received during any stage.</p>	<p>The draft will be circulated to all the members within 1 month's time.</p>
<p><b>Background</b></p> <p>Draft is provided by Shri Anand Mitkari vide mail dated 29/09/2021. Received Draft will be wide circulated for 2 months. If no comments are received, document shall be finalised for printing. Shri Anand Mitkari of M/s Mukund agreed to provide the revision draft of IS 4594 ‘Code of practice for design of portal and semi portal wharf cranes (electrical)’ within <b>02 weeks</b> in consultation with the panel members. The draft received to be circulated as P-draft for 01 month to the Committee members for comments.</p> <p>a) Shri Anand Mitkari of M/s Mukund (<i>convener</i>)                      b) Shri Sourav Sadhukhan of M/s Siemens Ltd.                      c) Shri R.S Prasad of M/s SAIL-CET &amp; IPSS                      d) Shri Shashikant and Shri Nishit Patel of M/s Anupam Industries                      e) Shri T. Muralidhar of M/s Mukund                      f) Shri S.K Mitra of M/s Anupam Industries                      g) Shri Shyam Gurnani of M/s Fefco                      h) Shri Deepak Desai of M/s Konecranes and Demag Pvt Ltd.</p> <p>Draft is provided by Shri Anand Mitkari vide mail dated 29/09/2021.</p>			
<b>2. Safety Requirements of Rail Mounted Quay Cranes</b>			



Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
Member secretary informed the committee that the draft will be circulated as P draft to committee members for 1 month then wide circulated for 2 months.	Draft circulated committee members for one month dated 23 Jan 2023. Response awaited.	The Committee decided the draft to be wide-circulated for 2 months, and to be sent for printing if no comments received during any stage.	The document will be wide circulated within 1 month.
<p><b>Background</b></p> <p>Shri Deepak Desai, M/s Konecranes and Demag Pvt Ltd agreed to provide the modified draft of Safety Requirements of Rail Mounted quay Cranes latest by Mid- November.</p> <p>The revision draft will be circulated as P draft to committee members for 1 month then wide circulated for 2 months.</p> <p>Shri Deepak Desai, M/s Konecranes and Demag Pvt Ltd agreed to provide the modified draft of Safety requirements of Rail Mounted Quay Cranes’ after incorporating the comments from Shri Debasis within 2 weeks.</p> <p>The draft received will be circulated as P draft for 1 month to the Committee members for comments.</p> <p>Modified draft is awaited.</p>			
<p><b>3. IS 15191 : 2002</b> Forged steel components for use with grade T (8) chain and chain slings - Specification;</p> <p><b>IS 2760 : 1980</b> Specification for steel chain slings;</p> <p><b>IS 8324 : 1988</b> Code of practice for safe use and maintenance on non - Calibrated round steel link lifting chains and chain slings; and</p> <p><b>IS 3109-1 : 1982</b> Specification for short link chain, grade M (4): Part 1 non - Calibrated load chain for lifting purposes</p>			
Shri Rohan Chitlangia, M/s Indian Chains agreed to provide the revision draft of IS 15191, IS 2760, IS 8324 by 31 <sup>st</sup> December 2021. He agreed to provide the draft of IS 3109-1, by	Comment on IS 2760 received from Shri Rohit Chitlangia, M/s Indian Chains dated 31 Oct 2022. <a href="#">Comment Shri Rohan Chitlangia.pdf</a>	The Committee decided that the members may send comments on draft document for IS 2760 and IS 15191 by 14 Feb 2023. Comments, to be forwarded to Mr Rohit Chitlangia, M/s Indian Chains for incorporation	Reminder sent to committee to provide comment by 23 Feb 2023.  ■ 20230123_MED14_ITEM 3.1 SL No 5 Reminde...  As no comments received till date. The draft to be circulated to committee members after editorial changes for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>March , 2022.</p> <p>He further requested BIS to provide the copy of DIN 580 and 582 for the revision of IS 4178 and IS 4190.</p>	<p>Draft for IS 2760 and 15191 received from Shri Rohan Chitlangia, M/s Indian Chains dated 1 November 2022, circulated to committee members 23 January 2023 for one month .</p> <p><a href="#">20221114_MED_14_IS_2760_WC_0.1.docx</a></p> <p><a href="#">20221115_MED_14_IS_15191_WC_0.1.docx</a></p> <p>Reminder sent to Shri Rohan Chitlangia for IS 8324 and IS 3109 (Part 1) on 21</p>	<p>and providing final draft. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.</p> <p>The Committee requested MS to send the required DIN standards to Mr Rohit Chitlangia, M/s Indian Chains.</p> <p>The Committee decided to revise IS 3109 and IS 8324 with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.</p>	<p>received during any stage.</p> <p>No response received.</p> <p>The draft will be circulated to all the members within 1 months time.</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
	Dec 2022.  DIN 580 sent to him but 582 not found.		

**Background**

Shri Rohan Chitlangia, M/s Indian Chains Provided a detailed justification on the changes that are to be made on the revision draft of IS 15191, IS 2760, IS 3109-1 and IS 8324.

He agreed to provide the revision draft of IS 15191, IS 8324 and IS 2760 by Mid- November.

And revision draft of IS 3109-1 by Mid-December.

The revision draft will be wide circulated to committee members for 2 months.

If no comments are received, the document will be finalised for printing.

He further added that due to unavailability of copy of DIN 580 and DIN 582 , he’s not able to proceed further on IS 4178 and IS 4190.

Shri Rohan Chitlangia of M/s Indian Chains Pvt. Ltd present during the meeting agreed to provide the following revision drafts by **15<sup>th</sup> August 2021**.


1. IS 15191 ‘Forged steel components for use with grade T (8) chain and chain slings -Specification’
2. IS 4178 ‘Specification for eye nuts with collars’
3. IS 4190 ‘Specification for eyebolts with collars’
4. IS 8324 ‘Code of practice for safe use and maintenance of non-calibrated round steel link lifting chains and chain slings’
5. IS 3109-1 Specification for short link chain Grade M (4)
6. IS 2760 Specification for steel chain slings

**4. IS 3832 : 2005 Hand - Operated chain pulley block - Specification**

Draft is to be put under wide circulation under Doc: MED 14 (18592) for 2 months. The committee noted the above information.	ARP from BIS officer shared with Shri Preet Heri, M/s Kito vide email dated 17 Jan 2023.	Mr Preet Heri, M/s Kito India Pvt Ltd agreed to modify the draft while reviewing Annex-B of agenda of 23rd TC meeting and incorporating	The reminder mail was sent on 17th Jan 2023 to M/s Kito Pvt Ltd to provide the draft.  ■ 20230125_MED14_ITEM 3.1 SI No 5 IS 3832 ...  The email and Draft was received on 23 Jan 2023 by
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Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
	<p>Response awaited.</p> <p>Response received from Shri Preet Heri, M/s Kito dated 25 Jan 2023.</p> <p><a href="#">IS 3832 Draft BIS Commented by Preet Heri_25012023.docx</a></p>	<p>material specification in a separate clause and provide the revised draft within one month.</p>	<p>M/s Kito Pvt Ltd.</p> <p>■ 20230125_MED14_ITEM 3.1 SI No 5 IS 3832 ...</p> <p>The revised draft is attached below;</p> <p>■ IS 3832 Draft BIS_Commented by Preet Heri_2...</p> <p>The draft will be wide circulated for 2 months time.</p>
<p><b>Background</b></p> <p>MS informed that the Action research project was allocated to one BIS officer and he has drafted the annexure on a recommendation for use of hand chain manually operated chain pulley block in hazardous (non-sparking) areas. Same will be Communicated to Shri Preet Heri for his confirmation.</p> <p>The revision draft will be wide circulated to committee members for 2 months.</p> <p>If no comments are received, the document will be finalised for printing.</p> <p>Shri Preet Heri informed the Committee that he is working to include recommendations for use of hand chain manually operated chain pulley blocks in hazardous (non-sparking) areas as an annexure in the revision draft of IS 3832.</p> <p>Shri Preet Heri agreed to provide the revised draft of IS 3832 within 2 months in consultation with the panel members.</p> <p>The draft was circulated as P draft for 01 months to the Committee members for comments.</p>			
<p><b>5. IS 6521-1 ‘Code of practice for design of tower cranes: Part 1 Static and rail mounted’</b></p>			
<p>The Committee requested MS to contact Shri Ravindra Luthra and get updates about the revision of the standard.</p>	<p>Reminder sent to Mr Ravindra Luthra, M/s ACE, 21 Dec 2022. Response received that he</p>	<p>The Committee decided to revise the document with editorial changes. The draft to be circulated to committee members for 15</p>	<p>The draft will be circulated to all the members within 1 months time.</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
	had left the company one year prior.	days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.	
<p><b>Background</b></p> <p>Due to the unavailability of panel members during the meeting, this point is deferred for the next meeting. Shri Ravindra Luthra of M/s ACE again agreed to provide the revised draft of IS 6521-1 ‘Code of practice for design of tower cranes: Part 1 Static and rail mounted’ after consultation with panel members by 15<sup>th</sup> Aug 2021. The draft received will be circulated as P draft for 01 month to the Committee members for comments.</p> <p>a) Shri Ravindra Luthra of M/s ACE (<i>convener</i>)</p> <p>b) Shri Neeraj Waghela of M/s Liebherr Ltd.</p> <p>c) A representative of M/s Shree Cements – Contact details to be provided by Shri Ravindra Luthra of M/s ACE</p> <p>d) Late Shri P Jha and Shri Mokshesh B Shah of M/s Anupam Industries</p> <p>e) Shri R.S Bisht of CBRI</p> <p>f) A representative of M/s Potain Pvt Ltd - Contact details to be provided by Shri Sudipto of M/s TIL</p> <p>Contact Details of representatives from M/s Potain India Pvt. Ltd. are provided by Shri Sudipta Gangopadhyay.</p>			
<p><b>6. IS/ISO 4309:2017 ‘Cranes — Wire ropes — Care and maintenance, inspection and discard’</b></p>			
<p>Shri Biplab Gosh agreed to provide the contact details of rope manufacturers. The Committee decided that the decision shall be taken on adoption of ISO 4309 based on the rope manufacturers recommendation.</p>	<p>Details of rope manufacturer received dated 22 Dec 2022</p> <p><a href="#">Comments received from Shri Biplab Ghosh.docx</a></p> <p>Inputs sought from rope manufacturers dated 22 Dec</p>	<p>The Committee decided to adopt this standard as an Indian Standard under single numbering. The document to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.</p>	<p>The document has been printed in December 2023.</p>


Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
	2022. Inputs received dated 23 Dec 2022. <a href="#">Comment from Rope Manufacturer.pdf</a>		
<p><b>Background</b>                      Shri R. S. Bisht informed the committee that ISO 4309 can be adopted after taking recommendations from rope manufacturers. The Committee decided to co-opt rope manufacturer industries in the committee, after their co-option, decision shall be taken on adoption of ISO 4309 based on their recommendation.                      Contact details of rope manufacturers shall be provided by Shri R S Bisht and Shri G L Mirchandani.                      Shri R.S Prasad of M/s IPSS-SAIL and Shri Heeralal Bharani of M/s BHEL agreed to examine ISO 4309 : 2017 ‘Cranes — Wire ropes — Care and maintenance, inspection and discard’ and provide their recommendation for its adoption.</p>			
<p><b>7. Revision of IS 807</b></p>			
<p>The Committee may please note the current panel meetings are being conducted.                      The Committee requested the Panel to expedite the early revision of IS 807.                      The Convener of the Panel, Shri Natarajan of M/s EGS Computer agreed to provide the draft revision by Dec 2020.</p>	<p><b>Response awaited from the panel.</b></p>	<p>The Committee decided to add Mr Deepak Biswal, M/s Steel authority of India, Centre for Engineering and Technology, Ranchi to the panel. The Committee requested the representative Mr Sridhar from M/s EGS Computer India Pvt Ltd, Chennai to convene the meetings and get the draft finalised within three months.</p>	<p>The Reminder was sent to Mr. Natarajan on 06 Mar 2023 and Comment received on 13 Mar 2023 that he will complete the document by Thursday 16 Mar 2023.</p> <p> 20230313_MED14_ITEM 6.1 SI No 11 _Reciev...</p> <p>Called on 13 March 2023, he will revert the document by 16 March 2023 Thursday.</p> <p>Call status He will send all the details by the end of this week by email and will discuss some changes in IS 807 in the next meeting with agenda point.(17 Mar 2023).</p> <p>Call not responding Date 22/03/2023</p> <p>Reminder Sent to Mr Natarajan to seek the information</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
			<p>Dated 23/03/2023</p> <p>■ 20230323_MED14_IS807_ Mr natrajan Remind...</p> <p>Document sent to Mr Natarajan and Ashok Dated 24/03/2023</p> <p>■ 20230324_MED14_IS807_Mr Natarajan and M...</p> <p>Response received from Mr Natarajan dated 23 Mar 2023</p> <p>■ 20230323_MED14_Responce_ From Mr Natara...</p> <p>Reminder Sent to Mr Natarajan Dated 13 April 2023.</p> <p>■ 20230413_MED14_reminder sent to Mr Nataraj...</p> <p><i>No response received till now.</i></p>
<p><b>Background</b></p> <p>Based on the request from the members, the Committee reconstituted the Panel as given below:</p> <ul style="list-style-type: none"> <li>a) Shri Natarajan Ramamoorthy of M/s EGS Computer India Pvt Ltd (<b>Convener</b>)</li> <li>b) Shri Anand Mitkari of M/s Mukund Ltd.</li> <li>c) Shri Deepak Desai of M/s Konecranes &amp; Demag Pvt Ltd.</li> <li>d) Shri Anshuman Bhandari of M/s M.N.Dastur &amp; Co.</li> <li>e) Shri Heera Bharani of M/s BHEL.</li> <li>f) Shri Abhijit Ghosh of M/s TATA Steel.</li> <li>g) Shri Shyam Gurnani of M/s FAFECO.</li> <li>h) Shri Mokshesh B Shah/ Shri P. Jha of M/s Anupam Industries.</li> <li>i) Shri J.B. Bhatt of M/s Techno Industries.</li> <li>j) Shri Ravindra Luthra of M/s ACE.</li> <li>k) Shri Shishupal Choudhary of M/s EIL.</li> <li>l) Shri Ankit Jalan of M/s MECON.</li> </ul>			

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
m) Shri R.S Bisht of CBRI. n) Shri Mukulesh Debnath.			
<b>8. ISO/TS 23624:2021 Cranes — Safe use of high-performance fibre ropes in crane applications</b>			
ISO/ TS 23624:2021 is circulated among committee members. No comments have been received. The Committee decided that the decision shall be taken on adoption of ISO/TS 23624:2021 based on the rope manufacturers recommendation.	Details of rope manufacturer received dated 22 Dec 2022. <a href="#">Comments received from Shri Biplab Ghosh.docx</a>  Inputs sought from rope manufacturers dated 22 Dec 2022. Inputs received dated 23 Dec 2022. <a href="#">Comment from Rope Manufacturer.pdf</a>	The Committee decided to invite five rope manufacturers as members on the Committee, for which the contact details were shared by Mr R S Bisht, M/s CSIR Roorkee during the meeting. The Committee deferred the decision on adoption of this standard subject to opinion of rope manufacturers :  a) M/s Usha Martin Ltd. b) M/s Mahadev Industries c) M/s Asahi Ropes Pvt Ltd. d) M/s Bharat Wire Ropes Ltd. e) M/s Shree Steel Wire Ropes Ltd.	Co-Option letter and Email has been sent on 6 feb 2023.  a) Usha Martin Call status for Usha martin dated 06/04/2023  Co-option mail to be sent to Tushar Mukharjee for joining the committee. (Email id <a href="mailto:tushar_mukherjee@ushamaritn.co.in">tushar_mukherjee@ushamaritn.co.in</a> and <a href="mailto:sandeep_jaiswal@ushamartin.co.in">sandeep_jaiswal@ushamartin.co.in</a> )  c) Asahi Ropes Call Status Asahi Ropes 06/04/2023, Mr Nukul Gupta asked to resend the email for co-option in the MED 14 as he misplaced the Sent nomination latter.( <a href="mailto:nakulgupta@asahiropes.in">nakulgupta@asahiropes.in</a> (09810884435))  Reminder Sent Dated 09 May 2023 to Asahi Ropes <a href="#">20230509_MED14_ASahi_ropes_Reminder.pdf</a>  Call dated 09 May 2023, Reminded Mr Nakul for sending the proforma ASAP.  Nomination received from Asahi Ropes Dated 18 Apr 2023 (By post Kept in A1 file)



Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
			<p>d) Bharat Wires</p> <p>Call status Bharat wire ropes dated 06/04/2023 As he haven't received letter for co-option so he asks for email with nomination proforma (Shri Mahender Singh Arora, Email <a href="mailto:msa@bharatwireropes.com">msa@bharatwireropes.com</a>, (9619901811))</p> <p>Nomination received dated 23 Feb 2023 for Bharat wires (By Post kept in File)</p> <p>All the concern email and letter have been sent by kundun on 13 April 2023.</p> <p>e) Steel wire ropes</p> <ul style="list-style-type: none"> <li>■ 20230413_MED14_Steel_Wire_ropes.pdf</li> </ul> <p>Reminder mail sent on 9 may 2023.</p> <ul style="list-style-type: none"> <li>■ Email_REMINDER_9 MAY 2023.pdf</li> </ul> <p><i>No Response received.</i></p>
<p><b>Background</b> The Committee requested MS to circulate ISO/TS 23624:2021 Cranes — Safe use of high-performance fibre ropes in crane applications to the committee members for their comments on the adoption of ISO 23624.</p>			
<p><b>9. IS 4164:1976 Specification for Lifting 'C' Hooks with Eye - Capacity up to 25 Tonnes</b></p>			
<p>The committee noted the status. Shri Rohan Chitlangia, M/s Indian Chains informed the committee</p>	<p>Reminder sent dated 23 Dec 2022, Response awaited.</p>	<p>The Committee decided to revise the document with editorial changes. The draft to be circulated to</p>	<p>The draft will be circulated to all the members within 1 month's time.</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>that Specification given in IS 4164 are outdated and needs to be revised or withdrawn. He informed that he will look for relevant international standards and shall provide his recommendation by February end 2022.</p>		<p>committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.</p>	
<p><b>Background</b> Shri Rohan Chitlangia requested the copy of ISO 4779 and agreed to review both ISO 4779 and IS 4164 and agreed to provide his recommendation by mid - November 2021 ISO 4779 Chain components for lifting purposes — Forged eye hook with point and latch — Grade 4, stainless steel, solution annealed.  ISO 4779 is under <i>development stage</i>.</p>			
<p><b>10. IS 6217:1982 Specification for short link chain, grade S (6), non - Calibrated for lifting purposes (First Revision)</b></p>			
<p>Shri Anuj Gupta of M/s Monal Chains vide mail dated 07/10/2021 informed that IS 6217 and IS 6296 are widely used and requested to please again review the decision for withdrawal. The committee decided that Shri Anuj Gupta shall provide the contact details of user govt.</p>	<p>Circulated to the committee on 23 Jan 2023. Response awaited.</p>	<p>The Committee decided to propose these standards for withdrawal to MEDC.</p>	<p>Email has been sent to MEDC for withdrawal of the documents on 06 Mar 2023.  The standard will be put up during the next MEEDC meeting for withdrawal.   20230306_MED14_ITEM5.1 SI 14 MEDC wi...</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>institution to MS. MS shall circulate both standards IS 6217 and IS 6296 to them along with the current decision taken up by the committee i.e. Withdrawal of IS 6217 and IS 6296. A period of 3 month time shall be given to them for their comments. If no comments are received, the committee shall further decide in the next sectional committee meeting.</p>			
<p><b>Background</b> Based on Shri Rohan Chitlangia, M/s Indian Chains recommendation, The committee decided to withdraw IS 6217 : 1982. 1) ISO 3075-1 : 1980. 2) ISO standard has been withdrawn.</p>			
<p><b>11. IS 5604:1984 Specification for hand - Operated universal gearless pulling and lifting machines (First Revision)</b></p>			
<p>Revision draft /Inputs is awaited. The committee noted the status. The Committee decided that Shri Anuj Gupta shall provide the contact details of M/s Tirfor to</p>	<p>Reminder sent dated 23 Dec 2022. Response awaited.</p>	<p>The committee decided to Send a reminder to Mr Anuj Gupta, M/s Monal Chains and seek inputs within one month.</p>	<p>Reminder sent to Mr Anuj Gupta, M/s Monal Chains for Seeking inputs within one month.   <span style="background-color: #e0e0e0; padding: 2px;">20230314_MED14_Item 6.1 SI 15 Reminder an...</span>                       Call status- reminder call done                       Response received from Mr Anuj Gupta, M/s Monal</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
Shri Rohan Chitlangia, M/s Indian Chains.			<p>Chains. Dated 14 Mar 2023 (Done for the next meeting)</p> <p>■ 20230314_MED14_Item 6.1 SI 15 Reply from a...</p> <p>The committee may decide to reaffirm and revise the standard after incorporating the latest practice and doing some editorial changes.</p>
<b>12. IS 6296:1983 Specification for short link chain grade s(6) calibrated for pulley blocks and other lifting appliances</b>			
<p>Shri Anuj Gupta of M/s Monal Chains vide mail dated 07/10/2021 informed that IS 6217 and IS 6296 are widely used and requested to please again review the decision for withdrawal.</p> <p>The committee decided that Shri Anuj Gupta shall provide the contact details of user govt. institution to MS.</p> <p>MS shall circulate both standards IS 6217 and IS 6296 to them along with the current decision taken up by the committee i.e. Withdrawal of IS 6217 and IS 6296.</p> <p>A period of 3 month time</p>	<p>Circulated to the committee on 23 Jan 2023.</p> <p>Response awaited.</p>	<p>The Committee decided to propose these standards for withdrawal to MEDC.</p>	<p>The withdrawal mail was sent to MEDC on 06 Mar 2023 to withdraw the standards.</p> <p>■ 20230306_MED14_ITEM5.1 SI 10 and 11 M...</p>

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>shall be given to them for their comments. If no comments are received, the committee shall further decide in the next sectional committee meeting.</p>			
<p><b>Background</b> Shri Rohan Chitlangia, M/s Indian Chains agreed to review IS 6296 and provide its draft revision within 03 months. Based on Shri Rohan Chitlangia, M/s Indian Chains recommendation, The committee decided to withdraw IS 6296:1983. BS EN 818-3:1999+A1:2008 Short link chain for lifting purposes. Safety. Medium tolerance chain for chain slings. Grade 4 Committee may review both standards and consider the revision of IS 6296.</p>			
<p><b>13. IS 6498:1971 Glossary of terms used in connection with pulley blocks</b></p>			
<p>Shri Ankit Jalan provided his recommendation that the standard is upto date and should be reprint in its present form. The Committee decided that MS will prepare draft revision by updating the ICS, foreword, reference clause, etc. (editorial) and directly wide-circulate the document for 2 months. If no comments are received, the document will be sent for printing.</p>	<p>Draft document with editorial changes is under preparation.</p>	<p>The Committee decided to revise the document with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.</p>	<p>The draft will be circulated to all the members within 1 months time.</p>
<p><b>Background</b></p>			

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
Shri Ankit Jalan agreed to provide to review IS 6498 and will provide his recommendation by November 2021 end. BS 3810-6 : 1973 Base standard has been withdrawn			
<b>14. IS 6549 : 1972 Glossary of terms used in connection with lifting tackle</b>			
Shri Ankit Jalan provided his recommendation that the standard is upto date and should be reprint in its present form. The Committee decided that MS will prepare draft revision by updating the ICS, foreword, reference clause, etc. (editorial) and directly wide-circulate the document for 2 months. If no comments are received, the document will be sent for printing.	Draft circulated to committee on 21 Dec 2022. Response awaited.	The Committee decided to revise the document with editorial changes. The draft to be circulated to committee members for 15 days, to be wide-circulated for 2 months, and to be sent for printing, if no comments are received during any stage.	The draft will be circulated to all the members within 1 months time.
<b>Background</b> Shri Ankit Jalan agreed to review IS 6549 and will provide his recommendation by November 2021 end. BS 3810-5 : 1971 Base standard has been withdrawn			
<b>15. IS 7847 : 1975 General characteristics of lifting hooks</b>			
Shri Deepak Desai agreed to review IS 7847	Reminder Sent to Shri Deepak	The committee decided to send a reminder to Mr	Reminder send to Mr Deepak desai for seeking inputs dated 14 Mar 2023

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
: 1975 and shall provide his recommendation by March 2022.	Desai on 22 Dec 2022. Response awaited.	Deepak Desai, M/s Konecranes & Demag Pvt Ltd and seek inputs within one month.	<p>■ 20230314_MED14_Item 6.1 SI 19 Reminder De...</p> <p>Call status- reminder call done 14 March 2023</p> <p>As no response received after the call, reminder has been sent to Mr Deepak Desai Dated 23/03/2023</p> <p>■ 20230323_MED14_Mr deepak Desai reminder.pdf</p> <p>Response received from Mr Deepak Desai Dated 23 Mar 2023.</p> <p>■ 20230323_MED14_Responce_Mr Deepak Desai...</p> <p>P Role of IS7847-1975 in IS15560-2005.pptx</p> <p><i>The committee may please discuss and decide.</i></p>
<b>Background</b>			
The Committee requested Shri Deepak Desai to review the standard and to provide his comments.			
1) ISO 2141 : 1972.			
2) Base standard has been withdrawn.			
<b>16. IS 3177:2020 Electric Overhead Travelling Crane and Gantry Crane for all Applications — Code of Practice (Third Revision)</b>			
Comments from Shri Anand Mitkari of M/s Mukand Ltd. has been received vide mail dated 23/11/2021.	Comments circulated to committee members vide email dated 24 Jan	The Committee discussed the three comments received from Mr Anand Mitkari, M/s Mukand Limited and decided as	C) Email sent to Mr sandeep bhattad M/s Kone Cranes and Demag to send the details within one week. Inputs from Mr Sandeep D Bhattad, M/s Kone Cranes and Demag to be circulated to committee members for one month.

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>Comments from Shri Anand Mitkari were discussed and following changes were proposed:</p> <p>a) Clause 50.3.1 (Page 39), [50.5.2 shall be replaced with 50.2 in the following]</p> <p>‘S = service factor aimed at providing adequate motor heat dissipation capacity as given in 50.5.2’.</p> <p>b) Clause 50.2 (Page 37) Table no. shall be given for the table ‘values of service factor(S) for a.c’.</p> <p>c) Clause 50.5.4 (Page 41) , Revised Table for the acceleration values (a) shall be provided by Shri Sandeep Battad of M/s Konecranes and Demag in 2 weeks.</p>	<p>2023.</p> <p><a href="#">24012023_Circulation Mail 0.1.pdf</a></p> <p><a href="#">24012023_Circulation Mail 0.2.pdf</a></p> <p><a href="#">IS 3177.pdf</a></p> <p>Further comments received from Mr G L Mirchandani, M/s Unique Industrial Handlers Pvt Ltd on 05 Jan 2023, which is attached below.</p> <p><a href="#">G L Mirchandani comments on 05 jan 2023.pdf</a></p>	<p>follows:</p> <p>a) Accepted; and</p> <p>b) Not accepted</p> <p>c) Mr Sandeep D Bhattad, M/s Kone Cranes and Demag to send the details within one week.</p> <p>Inputs from Mr Sandeep D Bhattad, M/s Kone Cranes and Demag to be circulated to committee members for one month.</p> <p>Further discussion to be held in the next meeting.</p> <p>The Committee discussed the three comments received from Mr G L Mirchandani, M/s Unique Industrial Handlers Pvt Ltd and decided as follows:</p> <p>a) Not accepted</p> <p>b) Accepted</p> <p>c) Clause 19.9 to be added. Values of service factor to be discussed in</p>	<p>■ 20230314_MED14_Item 6.1 Sl No 21 Mr Sand...</p> <p>Call status - reminder call done 14 March 2023 he left his company and joined MOGroup and sent the email again for his reference.</p> <p>■ 20230315_MED14_Mr Bhattad_New Company ...</p> <p>Reminder sent to Mr Sandeep Bhattad Dated 23/03/2023</p> <p>■ 20230323_MED14_ITEM 6.1 Sl 21 Mr Sandeep...</p> <p>Reminder Sent to Mr Sandeep Bhattad</p> <p>■ 20230413_MED14_Reminder_Mr Sandeep Bhat...</p> <p>Mail received by Mr Sandeep Bhattad Dated 23 Mar 2023 Seeking information for Mr Anant Mitkari for discussion and revising his nomination to the committee.</p> <p>■ 20230323_MED14_Mr Bhattad asked details for...</p> <p><i>The committee may please discuss and decide.</i></p>



Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
<p>The above changes shall be circulated to committee members for 1 month. The further discussion shall be held in the next committee meeting.</p>		<p>the next meeting. Members are requested to recommend service factor values, if possible. MS to circulate to members for input for one month.</p> <p>d) Already discussed as per third comment from Mr Anand Mitkari, M/s Mukand Limited</p> <p>e) Clause 10.1, add reference to material for rolled steel Grade B as per IS 2062 in addition to IS 1030. MS to circulate to members for seeking grade of rolled steel. Further grade to be discussed in the next meeting.</p> <p>The Committee further decided that the number of circumferential joints in hoist rope drums to be defined, draft to be received from Mr Ravinder Sharma, M/s Jindal Steel and Power within one month. Further discussion to be held in the</p>	

Decision taken during 20th meeting	Actions taken since 20th meeting	Decision taken in this meeting	ATR
		next meeting.	

**6 DATE AND PLACE FOR THE NEXT MEETING**

*The committee may please decide the next date and place of the meeting.*

**7 ANY OTHER BUSINESS**

*The committee members may inform if they have any addition agenda points.*

**7.1 Informative Agenda Items**

**7.1.1 Mapping of Indian Standards in coherence with SDGs**

IS No.	IS Title	SDG (s) mapped	Subject	Wastage disposal addressed (Yes/No)	Action plan
IS 16773: 2018/ ISO 16877 : 2015	Round steel short link chains for lifting purposes - Fine tolerance hoist chains for hand operated chain hoists - Grade TH	7) Ensure healthy lives and promote well-being for all at all ages, Ensure healthy lives and promote well-being for all at all ages	Chains	Yes	
IS 16772: 2018/ ISO 16872 :2015	Round steel short link chains for lifting purposes - Fine tolerance hoist chains	7) : Ensure healthy lives and promote well-being for all at all ages, : Ensure healthy lives and promote well-being for all	Chains	Yes	

	for hand operated chain hoists - Grade VH	at all ages			
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**7.1.2 Merging of Indian Standards**

*The Committee may decide new standards to be taken up for formulation in 2024-25.*

**7.1.3 Webinars to be organised by the Committee**

*The committee may please suggest some webinars to attend for MS or committee member for committee work.*

**7.1.4 International and National events of importance to Committee Work**

Name/Title of the Event	Tentative Date	Venue

**7.2 Vote of Thanks**

24th meeting Annex-A

ANNEX-A

**Cranes, Lifting Chains and Related Equipment Sectional Committee, MED 14**

SI No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
1.	BEML Limited, Bengaluru	Principal Member	Name : Mr. Mr Hemant Kumar Email : g.d@beml.co.in Mobile : 9480233261 (W) Designation : GENERAL MANAGER	Y	N	N	1/3	Chairperson	28 Aug 2015	12 Dec 2019	
2.	ABB India Limited, Bengaluru	Principal Member	Name : Shri Gunde Vinod Kumar S. Email : gunde.vinodkumar@in.abb.com	N	N	Y	1/3	Industry	01 July 2015	02 Jan 2020	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 9901491008 (W) Designation : ASSOCIATE SALES DIRECTOR								
		Alternate Member	Name : Shri Rakesh Ramalingam Email : rakesh.ramalingam@in.abb.com Mobile : 9632888995 (W) Designation : HEAD ENGINEERING	N	N	N	0/3	Industry	01 July 2015	02 Jan 2020	
3.	Action Construction Equipment Limited, Palwal	Principal Member	Name : Shri V.K. Jadon Email : vijay.jadon@ace-cranes.com Mobile : 9717255466 Designation :	N	N	N	0/3	Industry	16 Jun 2018	18 Jun 2018	
		Alternate Member	Name : Shri Ravindra Luthra Email : ravindra.luthra@ace-cranes.com	N	N	N	0/3	Industry	16 Jun 2018	18 Jun 2018	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 9560078160 Designation :								
4.	Anupam Industries Limited, Udyog Nagar	Principal Member	Name : Shri Mokshesh Shah Email : mbshah@anupamgroup.com Mobile : 9428823705 (W) Designation : SR. MANAGER	N	N	Y	0/3	Industry	20 Mar 2017	07 Apr 2023	
		Alternate Member	Name : Mr. Shri Nishit Patel Email : nishit.patel@anupamgroup.com Mobile : 9978996405 Designation : DGM (Electrical Design)	N	N	N	0/3	Industry	20 Mar 2017	07 Apr 2023	
5.	Automotive Research Association of India (ARAI), Pune	Principal Member	Name : Mr. Shri Pradeep Jawale Email : jawale.nvh@araiiindia.com Mobile : 9096122989	NA	NA	Y	1/1	R&D Organization	06 Jan 2022	06 Jan 2022	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Designation : Deputy General Manager								
		Alternate Member	Name : Mr. Milind Kandalkar Email : kandalkar.nvh@araiindia.com Mobile : 8805024840 (W) Designation : Manager	NA	NA	Y	1/1	R&D Organization	06 Jan 2022	06 Jan 2022	
6.	Bharat Heavy Electrical Limited, New Delhi	Principal Member	Name : Mr. Shri Heeralal Bharani Email : hbharani@bhel.in Mobile : 9425604617 (W) Designation : AGM (HSE)	N	Y	N	1/3	Consumer Group	09 May 2018	09 May 2018	
		Alternate Member	Name : Shri Shankar Dutt Email : sdutt@bhel.in Mobile : 01334-285280 Designation : DGM	N	N	N	0/3	Consumer Group	09 May 2018	09 May 2018	
7.	Bharat Heavy Electricals	Principal Member	Name : Mr. Shri Yugal Kishor Panday	NA	NA	NA	NA	Central Ministry/Dept.	05 Apr 2018	12 Oct 2023	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Limited, Tiruchirappalli		Email : yugalkp@bhel.in Mobile : 9410395671 Designation : Addl. General Manager								
		Alternate Member	Name : Mr. Shri M. Arthanari Eswar Email : maeswaran@bhel.in Mobile : 9487842762 (W) Designation : Senior Engineer (M&S)	N	N	Y	1/3	Central Ministry/Dept.	05 Apr 2018	05 Apr 2018	
		Alternate Member	Name : Ms. Smt Santhi Maragathamani Email : ssmm@bhel.in Mobile : 9442502969 Designation : Addl. General Manager	NA	NA	NA	NA	Central Ministry/Dept.	05 Apr 2018	17 Nov 2023	
8.	Bharat Wire Ropes	Principal Member	Name : Mr. Shri Mahender Singh Arora	N	N	N	<b>0/3</b>	Industry	01 Mar 2023	03 Mar 2023	



Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Limited, Mumbai		Email : msa@bharatwireropes.com Mobile : 9619901811 (W) Designation : Chief Executive Officer								
		Alternate Member	Name : Mr. Shri Mayank Mittal Email : mayank@bharatwireropes.com Mobile : Designation : Joint Managing Director	N	N	N	0/3	Industry	01 Mar 2023	03 Mar 2023	
		Young Professional	Name : Ms. Shrimati Ashwini B. Lokhande Email : ashwini.l@bharatwireropes.com Mobile : 9321540021 (W) Designation : Senior Manager	Y	N	Y	2/3	Industry	01 Mar 2023	03 Mar 2023	
9.	CSIR - Central Building Research	Principal Member	Name : Mr. Shri Ravindra Singh Bisht	Y	Y	Y	3/3	R&D Organization	Aug 2022	20 Sep 2023	27 Sep 2023

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Institute, Roorkee		Email : rsbisht@cbri.res.in Mobile : 8958578946 9458948830 (W) Designation : Principal Scientist								
		Alternate Member	Name : Mr. Shri Kanti Lal Solanki Email : kantisolanki@cbri.res.in Mobile : 7753058440 (W) Designation : Scientist	N	N	Y	1/3	R&D Organization	Aug 2022	20 Sep 2023	27 Sep 2023
10.	Directorate General Factory Advice Service and Labour Institutes (DGFASLI), Mumbai	Principal Member	Name : <del>SHRI BHUPENDRA CHAKRADHARI</del> Email : b.chakradhari@dgfasli.nic.in Mobile : 9329218121 (W) Designation : Dy. Director (S)	N	N	Y	1/3	Central Ministry/Dept.	27 May 2020	03 June 2020	
		Alternate Member	Name : NB Reshamwar	NA	NA	Y	1/1	Central Ministry/Dept.	25 May 2020	16 Nov 2023	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : nb.reshamwar@d gfasli.nic.in Mobile : NA Designation : Assistant Director (Safety)								
11.	Directorate General of Quality Assurance, Ministry of Defence (DGQA), New Delhi	Principal Member	Name : Mr. Shri Dhritesh Prakash Sana Email : dp.sana@gov.in Mobile : 9422533620 (W) Designation : SSO-I	N	Y	N	1/3	Central Ministry/Dept.	23 Feb 2018	23 Feb 2018	
		Alternate Member	Name : Mr. Shri R. V. Jain Email : raja.vibhor@gov.in Mobile : 9871110345 (I) Designation : SSO-II	N	Y	Y	2/3	Central Ministry/Dept.	23 Feb 2018	13 Jul 2022	
12.	EGS Computers India Private Limited, Chennai	Principal Member	Name : Mr. Shri Natarajan R Email : nat@egs.co.in Mobile : 9444034701 (W)	Y	Y	Y	3/3	Technologist	03 Aug 2017	03 Aug 2017	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Designation :								
		Alternate Member	Name : SHRI B.ASHOK Email : ashok@egs.co.in Mobile : 9444034702 (W) Designation :	N	Y	Y	2/3	Technologist	03 Aug 2017	03 Aug 2017	06 Oct 2023
13.	Electromech Material Handling Systems, Pune	Principal Member	Name : Mr. Shri Sanjay Bhise Email : sanjay@emech.in Mobile : 9890254337 (W) Designation : Head of Department (Design)	N	N	N	0/3	Industry	15 May 2023	22 May 2023	
		Alternate Member	Name : Mr. Shri Niranjn Mazire Email : niranjnbmazire@gmail.com Mobile : 8888931800 (W) Designation : Senior Manager Design	N	Y	N	1/3	Industry	15 May 2023	15 May 2023	
14.	Engineers India	Principal Member	Name : Mr. Shri Rajib Ranjan Shrivastava	N	N	Y	1/3	Technologist	22 Mar 2012	19 May 2023	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Limited, New Delhi		Email : rr.shrivastava@eil.co.in Mobile : 9560520681 (W) Designation : Dy General Manager								
		Alternate Member	Name : Mr. Shri A. Natarajan Email : a.natarajan@eil.co.in Mobile : 9868994685 (W) Designation : Deputy General Manager	N	N	Y	1/3	Technologist	22 Mar 2012	19 May 2023	
15.	Furnace and Foundry Equipment Company, Mumbai	Principal Member	Name : Mr. SH. SHYAM M. GURNANI Email : shyam@fafeco.in Mobile : 9820228270 (W) Designation : Sr. Manager	N	N	Y	1/3	Industry	-	-	09 Oct 2023
		Alternate Member	Name : SH. SANJOY J. MASAND	N	N	N	0/3	Industry	-	-	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : sanjoymasand@hotmail.com Mobile : Designation :								
16.	Heavy Engineering Corporation Limited, Ranchi	Principal Member	Name : SH RAMJANAM PRASAD Email : ramjanampd@hecltd.com Mobile : 7547879034 Designation :	N	N	N	0/3	Industry	07 Mar 2018	07 Mar 2018	
		Alternate Member	Name : SH R N JHA Email : rnjha@hecltd.com Mobile : 7547879029 Designation :	N	N	N	0/3	Industry	07 Mar 2018	07 Mar 2018	
		Alternate Member	Name : Mr. SH SATISH KUMAR Email : kumarsatish@hecltd.com Mobile : 7631180139 (W) Designation :	Y	N	N	1/3	Industry	07 Mar 2018	07 Mar 2018	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
		Alternate Member	Name : SH T K SAHU Email : tksahu@hecltd.com Mobile : Designation :	N	N	N	0/3	Industry	07 Mar 2018	07 Mar 2018	
17.	Indian Chain Private Limited, Kolkata	Principal Member	Name : Mr. Shri Pradip Chitlangia Email : pchitlangia@nidekindia.com Mobile : 9830043303 (W) Designation : Director	Y	N	Y	2/3	Industry	17 Mar 2017	17 Mar 2017	
		Alternate Member	Name : Mr. Shri Rohan Chitlangia Email : rohan@indianchain.com Mobile : 9830013528 (W) Designation : Head (Operations)	N	Y	N	1/3	Industry	17 Mar 2017	17 Mar 2017	
18.	Indian Space Research Organization, Bengaluru	Principal Member	Name : Mr. Shri Shajahan Email : shajahan@isro.gov.in	Y	Y	Y	3/3	Central Ministry/Dept.	11 Apr 2023	12 Apr 2023	25 Sep 2023

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 8050904734 (W) Designation : Scientist/Engr-SF & Deputy Director, DSRQ								
19.	Jindal Steel and Power Limited, New Delhi	Principal Member	Name : Mr. Shri Ravinder Sharma Email : ravinder.sharma@jindalsteel.com Mobile : 9827477781 (W) Designation : Deputy General Manager (HOD Engineering)	N	Y	Y	2/3	Industry	09 Aug 2022	10 Aug 2022	27 Sep 2023
20.	KITO India Private Limited, Bengaluru	Principal Member	Name : Shri Preet H. Heri Email : preet.heri@kito.co.in Mobile : 9845150140 (W) Designation : Managing Director	N	Y	Y	2/3	Industry	11 Jan 2019	16 Jan 2019	
		Alternate Member	Name : Shri Anoop S. Bharadwaj	N	N	N	0/3	Industry	11 Jan 2019	16 Jan 2019	



Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : anoop@kito.co.in Mobile : 9481076085 Designation : Senior Manager - Sales								
21.	Kone Cranes and Demag Private Limited, New Delhi	Principal Member	Name : Mr. Shri Deepak Desai Email : deepak.desai@konecranes.com Mobile : 9673331854 (W) Designation : Director	N	N	Y	1/3	Industry	24 Sep 2013	26 Apr 2019	
		Alternate Member	Name : Mr. Shri Sandeep D. Bhattad Email : sandeep.bhattad@konecranes.com Mobile : 9673331821 (W) Designation : General Manager-Engineering	N	N	Y	1/3	Industry	24 Sep 2013	26 Apr 2019	
22.	MECON Limited, Ranchi	Principal Member	Name : Sh Bal Mukund Gandharva	N	N	N	0/3	Technologist	05 Aug 2015	02 Nov 2020	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : gandharvabm@m econlimited.co.in Mobile : 9431943496 Designation : AGM (MH)								
		Alternate Member	Name : SH ANKIT JALAN Email : jalanankit@meco nlimited.co.in Mobile : 9431725171 (W) Designation : Manager (MH)	N	Y	Y	2/3	Techno logist	05 Aug 2015	02 Nov 2020	
23.	MN Dastur and Company Private Limited, Kolkata	Principal Member	Name : SHRI ANSHUMAN BHANDARI Email : anshuman.b@dast urco.in Mobile : 9831014407 (W) Designation : Chief Engineer	N	N	Y	1/3	Techno logist	19 Jun 2015	30 Sep 2021	
		Alternate Member	Name : Mr. Shri Sandeep Karmakar	N	N	N	0/3	Techno logist	19 Jun 2015	30 Sep 2021	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : Sandeep.K@dastur.com Mobile : 9231350364 (W) Designation : Lead Engineer								
24.	Marathon Electric Motors (India) Limited, Kolkata	Principal Member	Name : Mr. Shri Parasar Lahiri Email : parasar.lahiri@regalrexnord.com Mobile : 9903900827 Designation : General Manager - Engineering	NA	NA	NA	NA	Industry	14 Mar 2014	12 Dec 2023	
			Name : Mr. Shri Gautam Mondal Email : gautam.mondal@regalrexnord.com Mobile : 9903900826 Designation : General Manager - Design	NA	NA	NA	NA	Industry	14 Mar 2014	12 Dec 2023	
25.	Mega Drivers Private	Principal Member	Name : Mr. Shri Saurabh Tripathi	N	N	Y	1/3	Industry	19 Oct 2021	19 Oct 2021	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Limited, Thane		Email : megadrives.sales@gmail.com Mobile : 7718853381 (W) Designation : Engineer (Design and Engineering)								
		Alternate Member	Name : Mr. Shri Dipak Majumdar Email : megadrives.sales@gmail.com Mobile : 9821084796 (W) Designation : Director	N	N	N	0/3	Industry	19 Oct 2021	19 Oct 2021	
26.	Metso Outotec India Private Limited, Vadodara	Principal Member	Name : Mr. Shri Sandeep Deokisan Bhattad Email : sandeep.bhattad@mogroup.com Mobile : 9319090788 (W) Designation :	N	N	Y	1/3	Industry	09 May 2023	10 May 2023	
27.	Ministry of Ports, Shipping and	Principal Member	Name : Mr. Anil Pruthi Email : anil.pruthi@nic.in	N	N	N	0/3	Central Ministry/Dept.	27 Feb 2018	13 Sep 2019	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
	Waterways, New Delhi		Mobile : 9013600523 (W) Designation : Director (Engineering)								
		Alternate Member	Name : Mr. Ramji Singh Email : ramji.shing@nic.in Mobile : 9654563359 Designation : Deputy Director (Engineering)	Y	Y	Y	3/3	Central Ministry/Dept.	27 Feb 2018	13 Sep 2019	
28.	Ministry of Surface Transport, New Delhi	Principal Member	Name : SH T K DUTTA Email : Mobile : Designation :	N	N	N	0/3	Central Ministry/Dept.	-	-	
29.	Monal Chains Limited, Mumbai	Principal Member	Name : Mr. SH ANUJ GUPTA Email : monalchain@gmail.com Mobile : 9820079486 (W) Designation : Director	N	N	N	0/3	Industry	Feb 2012	Feb 2012	
		Alternate Member	Name : SH D M JAIN	N	N	N	0/3	Industry	Feb 2012	Feb 2012	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : Mobile : Designation :								
30.	Mukand Limited, Thane	Principal Member	Name : Mr. SH .T MURALIDHAR. Retired Email : tmuralidhar@mukand.com Mobile : 9819762180 (W) Designation :	N	N	N	0/3	Industry	Feb 2019	Feb 2019	
		Alternate Member	Name : Mr. SH ANAND MITKARI Email : armitkari@mukand.com Mobile : 9833263471 Designation : Head (Mechanical Design)	N	Y	N	1/3	Industry	Feb 2019	Feb 2019	
31.	NTPC Limited, New Delhi	Principal Member	Name : Mr. Shri Rajesh Ganpatrao Mohadikar Email : rajeshmohadikar@ntpc.co.in	N	N	N	0/3	Central Ministry/Dept.	11 Apr 2023	12 Apr 2023	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 9650992656 (W) Designation : DGM, Project Engineering (Mechanical)								
		Alternate Member	Name : Mr. Shri Abhijit Nag Email : abhijitnag@ntpc.co.in Mobile : 9650993428 (W) Designation : Additional General Manager, Project Engineering (Mechanical)	N	N	N	0/3	Central Ministry/Dept.	11 Apr 2023	12 Apr 2023	
32.	Schneider Electric India Private Limited, Gurugram	Principal Member	Name : Shri Deepak Patel Email : dipak.patel@schneiderelectric.com Mobile : 9727762724 (W) Designation :	N	N	Y	1/3	Industry	10 Mar 2017	10 Mar 2017	
		Alternate Member	Name : Mr. Shri Senthilkumaran. LEFT	N	N	N	0/3	Industry	10 Mar 2017	10 Mar 2017	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : csenthil.Kumaran@schneiderelectric.com Mobile : 9611786692 Designation :								
		Alternate Member	Name : Shri Anmol Chaudhari Email : Amol.Chaudhari@schneider-electric.com Mobile : Designation :	N	N	N	0/3	Industry	10 Mar 2017	10 Mar 2017	
33.	Siemens Limited, Mumbai	Principal Member	Name : Shri Sourav Sadhukhan Email : sourav.sadhukhan@siemens.com Mobile : 9833538847 (W) Designation :	N	N	Y	1/3	Industry	26 Aug 2015	26 Aug 2015	
		Alternate Member	Name : Mr. Shri Prashant Pawar Email : pawar.prashant@siemens.com Mobile : 8652061222 (W)	N	N	N	0/3	Industry	26 Aug 2015	15 Dec 2021	



Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Designation : Head of Engineering - Cranes Application								
34.	Steel Authority of India, Centre for Engineering and Technology (SAIL), Ranchi	Principal Member	Name : Mr. Shri Rabi Shankar Prasad Email : rs.prasad@sail.in Mobile : 8986880497 (W) Designation : DGM (Mech)	Y	Y	Y	3/3	Central Ministry/Dept.	2 May 2016	20 Jan 2022	
		Alternate Member	Name : Mr. Shri Deepak Biswal Email : deepak.biswal@sail.in Mobile : 8986880482 (W) Designation : Senior Manager (Mech)	N	Y	Y	2/3	Central Ministry/Dept.	2 May 2016	13 Apr 2018	
35.	Steel Forging and Engineering Company, Kolkata	Principal Member	Name : Ms. Shrimati Tuli Ray Barman Email : sfec@rediffmail.com	N	N	N	0/3	Industry	28 Dec 2021	28 Dec 2021	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 9836380229 (W) Designation : Partner								
		Alternate Member	Name : Mr. Shri Bhaskar Ray Barman Email : sfec86@gmail.com Mobile : 9903401982 (W) Designation : Partner	N	N	N	0/3	Industry	28 Dec 2021	28 Dec 2021	
36.	TIL, Kolkata	Principal Member	Name : Mr. Shri Sudipta Gangopadhyay. LEFT Email : sudipta.gangopadhyay@tilindia.com Mobile : 9836309869 Designation :	N	N	N	0/3	Industry	26 Jun 2015	30 Jun 2015	
		Alternate Member	Name : Shri Biplab Ghosh Email : biplab.ghosh@tilindia.com	N	Y	Y	2/3	Industry	26 Jun 2015	Dec 2021	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Mobile : 9831351384 (W) Designation :								
37.	Tata Iron and Steel Company Limited (TISCO), Jamshedpur	Principal Member	Name : Shri S. K. Suman Email : sk.suman@tatasteel.com Mobile : Designation :	N	N	N	0/3	Consumer Group	10 July 2015	10 July 2015	
		Alternate Member	Name : Shri S. Biswas Email : s.bisas@tatasteel.com Mobile : Designation :	N	N	N	0/3	Consumer Group	10 July 2015	10 July 2015	
38.	Tacklers Engineering Pvt. Ltd, Ahmedabad  [Formerly known as Techno Industries Limited]	Principal Member	Name : Mr. Shri Jayesh B. Bhatt Email : tacklers@technoind.com Mobile : 9924403085 (W) 9824050308 Designation : Sr. Manager	Y	Y	Y	3/3	Industry	25 July 2017	25 July 2017	27 Sep 2023
		Alternate Member	Name : Mr. Shri Nirag A. Chokshi	N	N	N	0/3	Industry	25 July 2017	25 July 2017	

Sl No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : niragchokshi@techoind.com Mobile : 9825073608 (W) Designation : Director								
39.	Unique Industrial Handlers Private Limited, Mumbai	Principal Member	Name : Sh. G. L. Mirchandani Email : glmirchandani@unicrane.com Mobile : 9822313336 (W) Designation : General Manager-Tech	N	N	Y	1/3	Industry	14 Jan 2019	16 Dec 2021	
		Alternate Member	Name : Shri S. E. Badlawala Email : sebadlawala@unicrane.com Mobile : 9820120162 Designation : ADDL. GENERAL MANAGER	N	N	Y	1/3	Industry	14 Jan 2019	16 Dec 2021	
		Young Professional	Name : Sh Rajendra V Pagar	N	N	Y	1/3	Industry	14 Jan 2019	14 Jan 2019	

SI No.	Organisation Represented	Principal Member/Alternate Member	Member Details	22nd	23rd	24th	Total	Member Category	Member Since	Nomination Updated	Last Training attended on
			Email : rvpagar@unicrane.com Mobile : 9689918605 (W) Designation : Sr Design Manager								