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**भारतीय मानक ब्यूरो**

**BUREAU OF INDIAN STANDARDS**

***(METALLURGICAL ENGINEERING DEPARTMENT)***

###### **AGENDA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Committee** | **No. of Meeting** | **Date & Day** | **Time** | **Venue** |
| **Foundry And Steel Castings Sectional Committee, MTD 14** | **26th** | **27.09.2024** | **1100 am** | **Hybrid Mode:**  **VC Link:** [**https://bismanak.webex.com/bismanak/j.php?MTID=m0f85250fba4d8922b10d73147b72d0fb**](https://bismanak.webex.com/bismanak/j.php?MTID=m0f85250fba4d8922b10d73147b72d0fb)  **Password: 12345**  **Venue – BIS Manak Bhawan, New Delhi** |

**Chairman:** Shri V K Raizada **Member Secretary:**  Shri Kunal Kumar

**Item 0 GENERAL**

**0.1 Opening Remarks by BIS**

**0.2 Opening Remarks by the Chairman**

## Item1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

## 1.1 The Minutes of 25th meeting of Foundry And Steel Castings Sectional Committee, MTD 14 held on 28 June 2024 (Friday), were circulated to the members vide email as well as through portal dated 04 July 2024. No comments have been received

**The committee may consider and approve the minutes of the previous meeting.**

**ITEM 2 Monitoring of R&D Projects**

**2.1 Monthly progress report of R&D Projects under MTD 14–**

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| **Sr No** | **IS No & Title** | **TOR for R&D Project** | **Project code and Project allocated to** | **Monthly progress report** | **Committee decision** |
| 1 | IS 4475: 1986- Specification for crane - Suspended ladles for foundries:  Part 1 straight/taper sided geared ladles 0.25 to 10 tonnes for iron and steel foundries; |  | **MTD 0027**  **Nirma University** |  |  |
| 2 | IS 4475: 1986- Specification for crane - Suspended ladles for foundries:  Part 2 cylindrical geared ladles 0.25 to 3 - O tonnes for iron foundries; |  |  |  |  |
| 3 | IS 4475: 1986- Specification for crane - Suspended ladles for foundries:  Part 3 straight/taper sided ladles 0.25 to 3.0 tonnes for S. G. iron foundries; |  |  |  |  |
| 4 | IS 4475: 1986- Specification for crane - Suspended ladles for foundries:  Part 4 taper sided non - Geared ladles - 15 to 50 tonnes capacities for iron and steel foundries |  |  |  |  |
| 5 | IS 2644 : 1994 –  HIGH STRENGTH STEEL CASTINGS FOR GENERAL ENGINEERING AND STRUCTURAL PURPOSES-SPECIFICATION |  | **MTD 0142**  **IIT Roorkee** |  |  |
| 6 | IS 276 : 2000 –  AUSTENITIC-MANGANESE STEEL CASTINGS — SPECIFICATION |  | **MTD 0141**  **NIT Jalandhar** |  |  |
| 7 | IS 10091 : 1981 –  SPECIFICATION FOR IRON OXIDE POWDER FOR USE IN FOUNDRIES |  | **MTD 0143**  **NIT Jamshedpur** |  |  |
| 8 | IS 11266 : 1985 –  SPECIFICATION FOR FLAKE RESINS FOR USE IN SHELL PROCESS IN FOUNDRIES |  | **MTD 0144**  **BITS Pilani** |  |  |

**Item 3 Action taken report**

**3.1** Following 6 revised standards are printed. The committee may please note.

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| Sl No. | IS No. | IS Title | Status |
| 1 | IS 11286 : 2024 | Corrosion resistant high alloy steel, nickel base and cobalt base investment castings for severe applications - Specification | Printed |
| 2 | IS 3339 : 2024 | Specification for silica flour for use in foundries | Printed |
| 3 | IS 5303 : 2024 | Specification for zircon flour for use in foundries (First Revision) | Printed |
| 4 | IS 8228 : 2024 | Specification for bauxite sand | Printed |
| 5 | IS 4843: 2024 | Code for designation of ferrous castings | Printed |
| 6 | IS 6366 : 2024 | Specification for sprue plugs for use in foundries | Printed |

**3.2** Action taken on the pending documents continued from previous meetings –

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| --- | --- | --- | --- | --- |
| Sl No | **Subject** | **Decision of the committee during the Previous Meeting** | **Actions taken on the decisions of the last meeting** | **Decision of committee** |
| 1 | **New**  [MTD/14/23726](https://www.services.bis.gov.in/php/BIS_2.0/StandardsFormulationV2/Upload3.php?ID=T1o0MldCNnUxVFgrVXVNV1ZrQU94QT09)  **Manufacture and testing of high chrome grinding media ball for cement mills** | As decided in the 24th meeting, the document was circulated for WC on 24.01.2024, however the same was referred back by HMTD for some modifications.  Draft along with comments received from HMTD on test method for checking wear resistance mentioned at clause 11 and applicability of Microstructure clause 16 were discussed during 25th meeting.  Shri Suresh Kumar A informed that the wear resistance clause is mandatory in this case. He also elaborated about the method few industry followed for checking wear resistance. Shri A.N. Sudhakar emphasized on requirement of microstructure clause and suggested to keep it.  Shri Suresh Kumar agreed to add Annexures for test method for wear resistance and Microstructure in the draft.  The committee after deliberation decided to allot this validation/test method work to Mr. Suresh Kumar. Committee also requested Shri Sudhakar to provide his input to Shri Kumar. Committee requested shri Suresh Kumar to provide the modified draft to BIS within 30 days. The modified draft not received.  In the 25th meeting, the committee requested MS to send reminder to Mr Suresh Kumar to submit updated draft (addition of Annexures for test method for wear resistance and Microstructure) on Manufacture and testing of high chrome grinding media ball for cement mills. Committee agreed to send the revised draft in WC for 60 days. | Reminder mail dated 16 Aug 2024 sent to Shri Suresh Kumar.  Shri Suresh Kumar vide email dated 05 Sept 2024, submitted Annexure for Test method for wear resistance. Annex is attached.      The attached updated draft sent for WC for 60 days.  The committee may please note and decide. |  |
| 2 | IS 3018 : 1977  Specification for standard silica sand for raw material testing in foundries  MTD/14/22884 | WC done. Comment received from Shri Anup Chandra is attached    The committee discussed the comment received shri Anup Chandra and after deliberation decided to incorporate few inputs for refereeing IS 460 in clause no.11 and other IS in packing clause.  Committee requested Member secretary to circulate the modified draft in WC for 60 days. | Modified document circulated in WC for 60 days.  The committee may please note and decide. |  |
| 3 | **Revision of**  **IS 1918: 1966 Methods of physical tests for foundry sands** | In the 24th meeting, the committee decided to reaffirm the standard and decided to take a call on revision of standard on receipt of review report from Shri Pushkraj.  In the last meeting, Shri Pushkraj informed that he has reviewed the standard and there are several changes. He has incorporated 75% of those in the draft and working on remaining to incorporate. He requested to give 2 month time for submission of draft.  Committee agreed on his request. | An email dated 16 Aug 2024 sent to Mr Pushkraj to complete the draft.  Draft awaited from Shri Pushkraj.  The committee may please deliberate and decide. |  |
| 4 | **Specification for Steel/Ironshot/Grit use for blast cleaning and shot peening** | As per Agenda of the 15th Meeting- A draft prepared by M/s Bakul Castings Pvt. Ltd. Dewas, M.P. integrating existing Indian Standard IS 4606 : 1983, IS 4683 : 1968 and IS 5873 : 1970 was considered by the committee in its last meeting. The committee decided to circulate the document among the members for comments.  In the 24th meeting, the draft document was discussed and the committee were of the opinion that the draft should be relooked. The committee were informed about the available ISO Standards on the product. The committee were also informed that The standard has been allotted to an Intern from NIT Bhopal for making pre-standardization draft. She will visit the manufacturer, M/s Bakul Casting private limited / M/s Roto cast ltd, Raipur for getting complete information about the product.  The committee were of the opinion that the manufacturers (M/s Bakul Casting Private limited, Dewas, MP and M/s Raipur Roto Cast Ltd, Raipur) may provide the proper input on the draft as the draft was initially proposed and prepared by M/s Bakul Casting Private Limited.  The committee decided to Circulate the pre-standardization report received from Intern to committee members for inputs. | Intern report is attached.  The committee may please deliberate and decide. |  |
| 5 | **IS 3343: 1965**  Specification for natural moulding sand for use in foundries | The review work was allocated to Mr. D.K. Ghosh.  In the 25th meeting, the committee decided to reaffirm the Standard and decision on revision of the standard shall be taken on receipt of review report. | Standard reaffirmed.  The committee may please note and decide. |  |
| 6 | **IS 4683 : 1968**  Specification for chilled iron shot and grit for use in foundries | Merged Indian Standard not yet published. Standards shall be withdrawn after publication of the merged standard.  The committee after deliberation decided to Reaffirm the standards. | Standards reaffirmed.  The committee may please note. |  |
| 7 | **IS 5873 : 1970** Specification for steel cut - Wire shots for use in foundries |  |  |  |

# 3.3 Action taken report on the standards allocated for review during last meeting (pre-2000 standards)

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| **Sr No** | **IS No** | **Title** | **Decision of committee during previous meeting to allot the ARP to** | **Action taken** | **Decision of Committee** |
| 1 | IS 2707 : 1996Reviewed In : 2019 | Carbon steel castings for surface hardening - Specification (Fourth Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 2 | IS 3444 : 1999Reviewed In : 2019  ISO 11972:2015 Corrosion-resistant cast steels for general applications | Corrosion resistant high alloy steel and nickel base castings for general applications - Specification (Third Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 3 | IS 1280 : 1975Reviewed In : 2019 | Specification for foundry moulding boxes of steel construction (Second Revision) | Standard reaffirmed.  The committee noted the information.  During the meeting, Mr. Dinesh Gupta informed that they have communicated to the foundry industries for inputs, the inputs are still awaited. They are following up with the industries and submit the ARP within 2 months.    The committee agreed and decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr. Dinesh Gupta to complete the work within the scheduled time.  Draft Report awaited.  The committee may please deliberate and decide. |  |
| 4 | IS 13100 : 1991Reviewed In : 2019 | Pitch powder for use in cast iron foundry | Standard reaffirmed.  Document sent in WC for 60 days.  The committee agreed to send the document for printing if no comment received on WC document.  In case comment received on WC document, the same shall be discussed in the next committee meeting. | The document sent for WC is at HOD for approval. HOD has asked to visit a foundry industry before processing the document further.  Visit of foundry industry to be done.  The committee may please deliberate and decide. |  |
| 5 | IS 2763 : 1999Reviewed In : 2019 | Glossary of terms relating to foundry technology (First Revision) | In the 23rd meeting, the committee requested Mr. Anil Kumar Birru to review the standard and submit recommendation within 30 days.  No recommendation received so far.  In the 24th meeting, the committee after deliberation decided to reaffirm the standard.  Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | Reminder email dated 16/08/2024 sent to Mr Anil Kumar Birru.  Review report awaited.  The committee may please deliberate and decide. |  |
| 6 | IS 4604 : 1975Reviewed In : 2019 | Specification for pattern plates for machine moulding boxes (First Revision) | During the meeting, Mr. Dinesh Gupta informed that they have communicated to the foundry industries for inputs, the inputs are still awaited. They are following up with the industries and submit the ARP within 2 months.    The committee agreed and decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Gupta.  Review report awaited.  The committee may please deliberate and decide. |  |
| 7 | IS 4896 : 1992Reviewed In : 2019 | One percent chromium steel castings for resistance to abrasion - Specification (Second Revision) | Standard reaffirmed.  Document sent in WC for 60 days.  The committee agreed to send the document for printing if no comment received on WC document.  In case comment received on WC document, the same shall be discussed in the next committee meeting. | The document sent for WC is at HOD for approval. HOD has asked to visit a foundry industry before processing the document further.  Visit of foundry industry to be done.  The committee may please deliberate and decide. |  |
| 8 | IS 5904 : 1978Reviewed In : 2019 | Specification for steel chaplets for use in ferrous foundries (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 9 | IS 6376 : 1986Reviewed In : 2019 | Specification for pattern lifting pins and hooks for use in foundries (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 10 | IS 6377 : 1971Reviewed In : 2019 | Specification for mallets for use in foundries | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 11 | IS 6378 : 1986Reviewed In : 2019 | Specification for pattern lifting and rapping plates (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 12 | IS 6401 : 1986Reviewed In : 2019 | Specification for dowel pins for use in foundries (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 13 | IS 6447 : 1986Reviewed In : 2019 | Specification for vent wires for use in foundries (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 14 | IS 6907 : 1992Reviewed In : 2019 | Steel castings - Methods of sampling (First Revision) | Standard reaffirmed.  Document sent in WC for 60 days.  The committee agreed to send the document for printing if no comment received on WC document.  In case comment received on WC document, the same shall be discussed in the next committee meeting. | The document sent for WC is at HOD for approval. HOD has asked to visit a foundry industry before processing the document further.  Visit of foundry industry to be done.  The committee may please deliberate and decide. |  |
| 15 | IS 7297 : 1974Reviewed In : 2019 | Specification for olivine sand and flour for use in steel foundries | Standard was allotted to Shri D.K. Ghosh for review.  The committee requested MS to send a reminder through email as well as telephone to Mr D.K. Ghosh to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Ghosh. Also communicated on phone, he suggested that we should forward these standards to Mr Dinesh Gupta to take opinion of the foundry members on the specified value to standardize the document otherwise it will be very difficult to standardize it as there are 4000 small and medium scale foundries and every foundry have their own specification. They don’t bother about the values specified in the standard. |  |
| 16 | IS 7547 : 1987Reviewed In : 2019 | Specification for steel nails used as internal chills in steel castings (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 17 | IS 8246 : 1976Reviewed In : 2019 | Specification for liquid resins for use in shell process in foundries | Standard was allotted to Shri D.K. Ghosh for review.  The committee requested MS to send a reminder through email as well as telephone to Mr D.K. Ghosh to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Ghosh. Also communicated on phone, he suggested that we should forward these standards to Mr Dinesh Gupta to take opinion of the foundry members on the specified value to standardize the document otherwise it will be very difficult to standardize it as there are 4000 small and medium scale foundries and every foundry have their own specification. They don’t bother about the values specified in the standard. |  |
| 18 | IS 8250 : 1988Reviewed In : 2019 | Specification for foundry parting agents (First Revision) | Standard reaffirmed.  Document sent in WC for 60 days.  The committee agreed to send the document for printing if no comment received on WC document.  In case comment received on WC document, the same shall be discussed in the next committee meeting. | The document sent for WC is at HOD for approval. HOD has asked to visit a foundry industry before processing the document further.  Visit of foundry industry to be done.  The committee may please deliberate and decide. |  |
| 19 | IS 8779 : 1978Reviewed In : 2019 | Specification for core gums (Sodium Silicate Based) for use in foundries | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 20 | IS 8785 : 1978Reviewed In : 2019 | Specification for Co2 core binder system (Binder And Break - Down Agent) for use in foundries | Standard was allotted to Shri D.K. Ghosh for review.  The committee requested MS to send a reminder through email as well as telephone to Mr D.K. Ghosh to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Ghosh. Also communicated on phone, he suggested that we should forward these standards to Mr Dinesh Gupta to take opinion of the foundry members on the specified value to standardize the document otherwise it will be very difficult to standardize it as there are 4000 small and medium scale foundries and every foundry have their own specification. They don’t bother about the values specified in the standard. |  |
| 21 | IS 8939 : 1978Reviewed In : 2019 | Code of practice for use of oxygen in iron, steel and non - Ferrous metal foundries | Standard reaffirmed.  Document sent in WC for 60 days.  The committee agreed to send the document for printing if no comment received on WC document.  In case comment received on WC document, the same shall be discussed in the next committee meeting. | The document sent for WC is at HOD for approval. HOD has asked to visit a foundry industry before processing the document further.  Visit of foundry industry to be done.  The committee may please deliberate and decide. |  |
| 22 | IS 9008 : 1978Reviewed In : 2019 | Specification for core repairing paste for use in foundries | Standard was allotted to Shri D.K. Ghosh for review.  The committee requested MS to send a reminder through email as well as telephone to Mr D.K. Ghosh to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Ghosh. Also communicated on phone, he suggested that we should forward these standards to Mr Dinesh Gupta to take opinion of the foundry members on the specified value to standardize the document otherwise it will be very difficult to standardize it as there are 4000 small and medium scale foundries and every foundry have their own specification. They don’t bother about the values specified in the standard. |  |
| 23 | IS 9541 : 1987Reviewed In : 2019 | Specification for cast CTC segments (First Revision) | Standard reaffirmed.  The committee decided to review the standard on receipt of ARP. | ARP awaited.  The committee may please deliberate and decide. |  |
| 24 | IS 9661 : 1980Reviewed In : 2019 | Specification for hand shank ladles | Standard was allotted to Shri Ranjan Guha for review.  The committee requested MS to send a reminder through email as well as telephone to Mr Ranjan Guha to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP | Email dated 16/08/2024 sent to Mr Ranjan Guha to submit ARP within 30 days. ARP not received so far.  The committee may please deliberate and decide. |  |
| 25 | IS 9674 : 1980Reviewed In : 2019 | Test methods for fluid self hardening sands | Standard was allotted to Shri D.K. Ghosh for review.  The committee requested MS to send a reminder through email as well as telephone to Mr D.K. Ghosh to complete the review and send the ARP within 30 days.  The committee decided to review the standard on receipt of ARP. | Email dated 16/08/2024 sent to Mr Ghosh. Also communicated on phone, he suggested that we should forward these standards to Mr Dinesh Gupta to take opinion of the foundry members on the specified value to standardize the document otherwise it will be very difficult to standardize it as there are 4000 small and medium scale foundries and every foundry have their own specification. They don’t bother about the values specified in the standard. |  |

**Item 4 ANNUAL CALENDAR OF TECHNICAL COMMITTEE MEETINGS**

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| --- | --- | --- |
| **Meetings planned for FY 2024-25** | **Date & Time** | **Venue** |
| First Meeting (25th) | 28th June 2024 | Hybrid Mode- BIS HQ (Manak Bhavan), New Delhi |
| Second Meeting (26th) | 27th September 2024 | Hybrid Mode- BIS HQ (Manak Bhavan), New Delhi |
| Third Meeting (27th) | 20th December 2024 | Hybrid Mode- NIAMT, Ranchi |

**The Committee may please Note.**

**Item 5 Composition of committee**

**5.1** The present composition of sectional committee is given at **Annexure-2.**

**The committee may please note**.

**Item 6 COMMENTS ON PRINTED STANDARDS**

**6.1** The following comments were received on IS 1752: 2023 –

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| --- | --- | --- | --- | --- | --- |
| Sl. No. | Comment | Proposed changes | Decision of the committee during the Previous Meeting | Action taken | Decision of the committee |
| 1. | A new grade 4 may be included having high ash content. | Coal dust for use in foundry shall be of four grades, namely grade1, grade 2, grade 3 & grade 4 according to chemical composition. | The committee decided to prepare draft Amendment no. 1 to IS 1752: 2023 incorporating comments received from Manak Manthan. | Draft Amendment under preparation. |  |
| 2. | Table 1 – Higher ash content in coal dust decreases porosity, leading to less surface defect. | Ash, max 5 to 10 % may be included for grade 4. |

**Item 7 NEW SUBJECTS FOR STANDARDIZATION**

**7.1** As per new guidelines received from Competent Authority, any new proposal for standardization should essentially be made on the prescribed proforma as a preliminary work item. Where a proposal is made in the Sectional Committee, the member making the proposal should fill up the proforma before hand and present it in the meeting for consideration of the committee. The sample proforma is given in **Annexure-3**.

**7.2** It may further be added that the proposal received at **7.1** has to be analyzed by the member secretary in the prescribed proforma for consideration of the technical committee/screening committee keeping the following in view:

1. What is the feasibility of achieving consensus on national standards in this subject area by the proposed target date;
2. How many members besides the proposer agree to the proposal and how many are ready to actively participate in the development of the project;
3. Whether any outside funding is possible;
4. Only those subjects should be taken up which have a potential to mature into a standard in the stipulated time;

**7.3 Prioritization of a subject is decided as follows:**

**PRIORITY 1** Whenever there is a demand from the Govt. to prepare a standard on urgent basis or the need is felt by the Bureau, Standard Advisory Committee, Division Council or Technical Committee for preparation of standard due to emergent need on urgent basis.

**PRIORITY 2** whenever there is need to prepare a standard based on International trade.

**PRIORITY 3** All other subjects.

**7.4**The expected time schedule is given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **PRIORITY 1** | **PRIORITY 2** | **PRIORITY 3** |
| **Adoption** | 6 months | 9 months | 12 months |
| **Indigenous** | 9 months | 18 months | 24 months |

**The Committee may please note.**

**7.5 Proposal for New Subject**

**7.5.1**No new proposal received after the previous meeting.

**The Committee may please note.**

**Item 8 WTO-TBT Enquiry Point**

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

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

**8.3** The awareness regarding TBT notifications is lacking among various stakeholders in India and as a result India is not sending its comments on draft notifications by other countries, which may be of trade interest to India. As signatory of WTO-TBT agreement, there is a greater need for us to be aware of the TBT notifications issued by different countries in order to protect our interest.

**8.4** In BIS, International Relations & Technical Information Services Department (IR&TISD) operates the WTO-TBT Enquiry Point Services. IR&TISD disseminates the TBT Notifications of other countries to the Indian Stakeholders with a view to seek their comments and taking up the same at appropriate forum.

**8.5** The BIS technical committees have also been identified as stakeholders for the TBT Notifications and relevant notifications are being disseminated to them. The Committee members should examine the TBT Notifications with a view to protect Indian trade interest.

**Item 9 INTERNATIONAL ACTIVITIES**

**9.1 Interaction with ISO**

**9.1.1** The National Standards Bodies who are members of ISO have the right to participate in the work of its technical committees and subcommittees and working groups as participating (P members) or observer (O member) with the following responsibilities:

1. ‘P’ members have to participate actively in the work, with an obligation to vote on all questions formally submitted for voting within the technical committee or subcommittee and on draft documents at different stages or processing and, whenever possible, to participate in meeting (s).
2. `O’ members have to follow the work as an observer, and therefore, receive committee documents and have the right to submit comments and to attend meetings
3. National Bodies irrespective of their status as ‘P’ or ‘O’ member within a technical committee or subcommittee have the right to vote on draft International Standards.

**9.1.2** I India’s status on various technical Committees of ISO for which MTD-14 is the mirror committee is as follows:

ISO/TC 17/ SC 11 Steel castings – ‘P’ Member

ISO/TC 306 Foundry machinery – ‘O’ Member

**9.1.3** The details of the standards formulated by this ISO Technical/Sub-Committee.

**The committee may please note.**

**9.2India’s participation in ISO meetings**

**9.2.1** India being a **`P’** member in **ISO/TC 17/ SC 11** and **ISO/TC 25,‘P’** - members have to participate actively in the work, with an obligation to vote on all documents formally submitted for voting within the technical committee or subcommittee and on draft documents at different stages of processing and to participate in meeting(s), in order to place our view points on the ISO standards effectively.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Sectional Committee** | **Subject** | **link** |
| 1 | ISO/TC 17/ SC 11 | Steel castings | <https://www.iso.org/committee/46390.html> |
| 2 | ISO/TC 306 | Foundry machinery | <https://www.iso.org/committee/6198707/x/catalogue/p/1/u/0/w/0/d/0> |

**Status of India in ISO/TC 17 / SC 11 Steel Castings Sub Committee - ‘P’ Member (Published)**

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Standards** | **ICS** |
| i) | ISO 4986:2020 Steel and iron castings — Magnetic particle testing | 77.040.20  77.140.80 |
| ii) | ISO 4987:2020 Steel and iron castings — Liquid penetrant testing | 77.040.20  77.140.80 |
| iii) | ISO 4990:2015 Steel castings — General technical delivery requirements | 77.140.80 |
| iv) | ISO 4991:2015 Steel castings for pressure purposes | 77.040.20 77.140.80 |
| v) | ISO 4992-1:2020 Steel castings — Ultrasonic testing — Part 1: Steel castings for general purposes | 77.040.20  77.140.80 |
| vi) | ISO 4992-2:2020 Steel castings — Ultrasonic testing — Part 2: Steel castings for highly stressed components | 77.040.20 77.140.80 |
| vii) | ISO 4993:2015 Steel and iron castings — Radiographic testing | 77.040.20  77.140.80 |
| viii) | ISO 9477:2015 High strength cast steels for general engineering and structural purposes | 77.040.20  77.140.80 |
| ix) | ISO 10679:2019 Steels — Cast tool steels | 77.140.80 |
| x) | ISO 11970:2016  Specification and qualification of welding procedures for production welding of steel castings | 25.160.10  77.140.80 |
| xi) | ISO 11971:2020 Steel and iron castings — Visual testing of surface quality | 77.040.20  77.140.80 |
| xii) | ISO 11972:2015 Corrosion-resistant cast steels for general applications | 77.040.20 77.140.80 |
| xiii) | ISO 11973:2015 Heat-resistant cast steels and alloys for general applications | 77.040.20  77.140.80 |
| xiv) | ISO 13520:2015 Determination of ferrite content in austenitic stainless steel castings | 77.140.80 |
| xv) | ISO 13521:2023 Austenitic manganese steel castings | 77.140.80 |
| xvi) | ISO 13583-1:2023 Centrifugally cast steel and alloy products — Part 1: General testing and tolerances | 77.140.80 |
| xvii) | ISO 13583-2:2023 Centrifugally cast steel and alloy products — Part 2: Heatresistant materials | 77.140.80 |
| xviii) | ISO 14737:2021 Carbon and low alloy cast steels for general applications | 77.140.80 |
| xix) | ISO 16468:2015 Investment castings (steel, nickel alloys and cobalt alloys) — General technical requirements | 77.140.80 |
| xx) | ISO 19959:2020 Steels, nickel alloys and cobalt alloys investment castings — Visual testing of surface quality | 77.140.80 |
| xxi) | ISO 19960:2023 Cast steels and alloys with special physical properties | 77.140.80 |

**Standard and/or project under the direct responsibility of ISO/TC 17/SC 11 Secretariat (Under development)**

|  |  |  |
| --- | --- | --- |
| Sl No | Standards | ICS |
| i) | ISO/DIS 4990 Steel castings — General technical delivery requirements | 77.140.80 |
| ii) | ISO/AWI 4991 Steel castings for pressure purposes |  |
| iii) | ISO/DIS 4993 Steel and iron castings — Radiographic testing | 77.040.20 77.140.80 |
| iv) | ISO/DIS 9477 High strength cast steels for general engineering and structural purposes | 77.140.80 |
| v) | ISO/AWI 11970.2 Specification and qualification of welding procedures for production welding of steel castings |  |
| vi) | ISO/DIS 11972 Corrosion-resistant cast steels for general applications | 77.040.20 77.140.80 |
| vii) | ISO/DIS 11973 Heat-resistant cast steels and alloys for general applications | 77.040.20  77.140.80 |
| viii) | ISO/AWI 16468 Investment castings (steel, nickel alloys and cobalt alloys) — General technical requirements |  |

**Status of India in ISO/TC 306 Foundry machinery – ‘O’ Member**

**Standard and/or project under the direct responsibility of ISO/TC 306 Secretariat (Published)**

|  |  |  |
| --- | --- | --- |
| Sl No. | Standards | ICS |
| i) | ISO 23062:2022 Foundry machinery — Safety requirements for molding and coremaking machinery and associated equipment | 13.110  77.180  25.120.30 |
| ii) | ISO 23472-1:2020 Foundry machinery — Vocabulary — Part 1: General | 77.180  01.040.25 01.040.77  25.120.30 |
| iii) | ISO 23472-2:2020 Foundry machinery — Vocabulary — Part 2: Molding and coremaking machines and other equipment related to non-permanent mold casting process | 77.180  01.040.25 01.040.77  25.120.30 |
| iv) | [ISO 23472-3:2021](https://www.iso.org/standard/77954.html?browse=tc)Foundry machinery — Vocabulary — Part 3: Die casting machines and other equipment related to permanent mold casting process | 77.180  01.040.25 01.040.77  25.120.30 |
| v) | ISO 23472-4:2022 Foundry machinery — Vocabulary — Part 4: Abrasive blasting machines and other equipment related to cleaning and finishing for casting | 77.180  01.040.25 01.040.77  25.220.10 |
| vi) | ISO 23472-5:2022 Foundry machinery — Vocabulary — Part 5: Cupola furnaces and pouring devices and ladles | 77.180  01.040.77 |

**Standard and/or project under the direct responsibility of ISO/TC 306 Secretariat (Under development)**

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Standards** | **ICS** |
| i) | ISO/FDIS 23063 Foundry machinery — Safety requirements for high pressure die casting machines | 13.110  77.180 |
| ii) | ISO/FDIS 23779 Shot blasting machinery — safety and environmental requirements | 13.110  77.180 |

**The committee may please note.**

**9.3 Harmonizing of Indian standards with ISO standards**

**9.3.1** Efforts to be made to harmonize maximum number of BIS standards with ISO standards **-** While harmonizing the Indian standards with International standards the reasons/justifications are needed to be given in the foreword of Indian Standards, if there is any deviation from the provisions stipulated in the corresponding ISO standards.

**9.3.2** Members are requested to examine ISO standards vis-à-vis Indian standards and send their comments to BIS secretariat, if any, so that Indian standards could be revised /harmonized on the basis of ISO standard. Comments, if any, is tabled during the meeting for consideration of the committee.

**The committee may deliberate and decide.**

**Item 10 IMPLEMENTATION OF INDIAN STANDARDS**

**10.1** In order to derive maximum advantage of the National Standards, members are requested to adopt these Indian Standards in their respective organizations and bring to the notice of BIS DG, if any difficulty that they may experience in implementation. The feedback would enable MTD-14 to review the standards and eliminate wherever possible bottle necks in the implementation.

**10.2 Standard considered for mandatory certification by DPIIT**:

|  |  |  |
| --- | --- | --- |
|  | **Title** | **Gazette notification** |
| **Indian standard number** |  |  |
| **IS 9139: 2023** | Specification for Malleable iron shots and grits for use in foundries | Egazette-MalleableIron-Shots-and-Grits |

**The committee may please note.**

**Item 11 Research Projects to be Taken-up for Inclusion of Empirical Data and Insights**

**11.1** The current guidelines for R&D projects for establishments/revision of Indian Standards are given below:



**11.2** It has been decided that all the standard taken up for revision/new standard under development, shall be done by taking it up as a R&D project . The committee may decide on the R & D projects which can be taken up by the committee members for which funding shall be done by BIS

**The Committee may please note**

**Item 12 Conducting of quarterly meetings of Sectional Committees:**

**12.1** The Sectional Committees shall follow the system of quarterly meetings to be held preferably in the first month of the quarter on a date decided by the Chairperson of the Sectional Committee. As far as possible, the date of the next meeting shall be fixed in the Committee’s meeting itself or else, the date fixed by the Chairperson must be communicated to the members at least one month in advance along with the agenda items likely to come up for the discussions.

Sectional Committee meetings shall as far as possible to be held in virtual mode and all the communication with the members, including the agenda and minutes of the meeting should take place through Standardization Portal only. The Chairperson of the Sectional Committee can, however, decide if it is desirable to have a physical meeting or a meeting in hybrid mode (both physical and virtual).

**12.2 Formulation of Search Committees**

As per the guidelines issued under the structural reforms in BIS, the MTDC in its 28th meeting held on 16th February 2022 constituted a search committee to recommend the technical experts to be included in Sectional Committees of this MTD. The Technical Committee members are requested to share the details of the technical experts to be co-opted in the various Sectional Committees of BIS with the members of search committee. The search committee consists of following members:

* + - 1. Chairperson of MTD 04 TC, Shri Nirvik Banerjee - Convenor
      2. Chairperson of MTD 24 TC, Dr.U.KamachiMudali - Member
      3. Chairperson of MTD 03 TC, Dr Vikas Kumar – Member

**12.3 Recognition of Contributions of Technical Committees and its Members**

**12.3.1** The success of national standardization is fully dependent on the efforts and voluntary contribution of the BIS technical committee members. For sustaining standardization work it is necessary to attract participation and ensure the continued interest of relevant experts in standards development activities, undertake outreach to share relevant information with them and to take measures to facilitate their participation. Since standardization is primarily driven by individual interest and voluntary contribution of members of technical committees, it is also important that such contributions are recognized, acknowledged and appreciated so that the experts involved in standardization work value their involvement and association with BIS and national standardization efforts. This has also been identified as one of the action points towards achieving BIS’s strategic objective of enhancing stakeholder engagement, as indicated in the Standards National Action Plan of BIS**.**

**12.3.2** It is therefore, BIS has proposed to institute the following recognitions/awards acknowledging contribution of individual members/experts and BIS technical committees and the Standards Advisory Committee, SAC of BIS has approved the same during its meeting dated 30 December 2022.

* + - 1. BIS Committee of the Year Award – to recognize significant contribution and outstanding performance of a BIS Sectional Committee or Sub-committee in development of Indian Standards
      2. Certificate of Excellence to Committee Members – to recognize members of technical committees for their long association with BIS and their outstanding technical contribution to national standardization work
      3. Letter of Appreciation to Committee members – to recognize significant contribution of members of technical committees in developing standard(s) that can be considered to be major development in the subject areas in national standardization.

**12.3.3** Guidelines covering the eligibility criteria, nomination process, selection process and criteria to decide on the awards have been framed and are placed below:



Guidelines for Recognition of Cont

**12.4** Guidelines for Payment of TA/DA to Members of BIS Technical Committees under BIS Funds are given below:



TA-DA Guidelines

for TC Members-110

**The Committee may please note.**

# ITEM 13 TASKS ASSIGNED TO THE TECHNICAL COMMITTEES BY BIS

**13.1** In order to improve the performance of the technical committees, BIS has assigned the following tasks to the technical Committees. The Committees have work on the assigned tasks for their existence.

1. Identification of the new subjects for standardisation for 2024-25.
2. Preparation of the rolling Annual Action Plan and periodic review of the implementation there of.
3. Review of the implementation of the Standardisation National Action Plan (SNAP) in relation to the scope of work of the Technical Committee.
4. Examination of the Annual Programme for Standardisation, submitted by the Ministries/Departments of the Central Government.
5. Approve the annual calendar of Technical Committee meetings.
6. Discuss and approve the Agenda for Technical Committee Meeting.
7. Formation of Sub-committees, Panels. Working Groups and Task Forces.
8. Assigning Action Research Projects.
9. Identification of R&D projects to be commissioned by BIS and the determination of the Scope and Terms of Reference thereof.
10. Evaluation of R&D proposals received from outside organisations.
11. Examination of New Work Item Proposals (NWIP) and draft standards received from ISO/IEC.
12. Participation in the meetings of the Technical Committee or Working Groups of ISO/IEC, as and when nominated by BIS.
13. Participation if the Workshops /Seminars and Capacity-Building Programmes organized by BIS.

# Item 14 DATE AND PLACE OF NEXT MEETING

Tentative Annual meeting calendar for the year 2024-25 is attached.

|  |  |  |  |
| --- | --- | --- | --- |
| First meeting | Second Meeting | Third meeting | Fourth meeting |
| 28th June 2024 | 27th Sep 2024 | 20th Dec 2024 |  |

The committee may please note and decide.

**Item 15 ANY OTHER BUSINESS**

Annexure-1

**REVIEW ANALYSIS OF INDIAN STANDARD**

**(To be submitted to the Sectional Committee)**

1.**Sectional Committee No. & Title: MTD 14**

2.**IS No:**

1. **Title:**
2. **Date of review:**
3. **Review Analysis**
4. **Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard**  **(No. & Title)** | **Whether the standard has since been revised** | **Major changes** | **Action proposed** |
|  |  |  |  |

1. **Status of standards referred in the IS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Referred standards(No. & Title)** | **IS No. of this standards since revised** | **Changes that are of affecting the standard under review** | **Action proposed** |
|  |  |  |  |

1. **Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc.**

**or of new or revision of existing Indian Standard)**

|  |  |  |
| --- | --- | --- |
| **Standard**  **(No. & Title)** | **Provisions that could be relevant while reviewing the IS** | **Action proposed** |
|  |  |  |

1. **Technical comments on the standard received, if any**

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Clause of IS** | **Comment** | **Action proposed** |
|  |  |  |  |

1. **Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Development** | **Relevant clause of the IS under review**  **that is likely to be impacted**  **(Clause & IS No.)** | **Action proposed** |
|  |  |  |  |

1. **Issues arising out of changes in any related IS or due to formulation of new**

**Indian Standard**

|  |  |  |  |
| --- | --- | --- | --- |
| **Related IS and its Title**  **(revised or new)** | **Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision** | **Changes that may be necessary in the Standards under review** | **Action proposed** |
|  |  |  |  |

1. **Any consequential changes to be considered in other IS**

|  |  |
| --- | --- |
| **Related IS to get impacted** | **Requirements to be impacted** |
|  |  |

1. **Any other observation:**
2. **Recommendations:**

**Annexure-2**

**COMPOSITION OF SECTIONAL COMMITTEE, MTD 14**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl**  **No.** | **Name of the Organization** | **Representative Principal/Alternate** | **23rd** | **24th** | **25th** | **Last three meetings attended** |
|  | Bharat Heavy Electricals Ltd, HPEP, Hyderabad | Dr. A N Sudhakar  Shri Ranjith Lakra (Alternate)  Shri Abhinav Agrawal (Alternate) | Y | Y | N | 2/3 |
|  | CSIR – National Institute for Interdisciplinary Science and  Technology (NIIST),  Thiruvananthapuram | Dr. TPD Rajan  Dr. M. Ravi (Alternate) | Y | Y | N | 2/3 |
|  | CSIR - Central Mechanical Engineering Research Institute, Durgapur | Dr. Sudip Samantha | Y | Y | N | 2/3 |
|  | Ministry of Defence (DGQA),  Ichapur | Shri Ashok Kumar  Shri Rupesh Banait (Alternate) | Y | Y | Y | 3/3 |
|  | Foracepolymersprivate.limited,Haridwar | Mr. Dipak K Ghosh | Y | Y | N | 2/3 |
|  | Hindustan Aeronautics, Foundry and Forge Division, Bengaluru | Shri K Satyendra Kumar | Y | Y | N | 2/3 |
|  | Indian Institute of Technology Kharagpur | Prof. ShivBratSingh  Prof. Debalay Chakrabarti (Alternate) | Y | Y | N | 2/3 |
|  | Indian Register of Shipping, New Delhi | Dr K K Dhawan  Shri S. Velmurugan (Alternate) | Y | Y | Y | 3/3 |
|  | Institute of Indian Foundry men, New Delhi | Shri. Dinesh Gupta  Shri. Sanjeev Kumar (Alternate)  Shri. Mr Pradeep Mittal (Alternate) | Y | Y | Y | 3/3 |
|  | Ministry of Science &  Technology, New Delhi | Ms. Tamanna Arora  Shri K S P Rao (Alternate) | Y | Y | Y | 3/3 |
|  | National Institute of Foundry & Forging Technology, Ranchi | Dr. Kamlesh Kumar Singh  Dr. Amitesh Kumar (Alternate) | Y | N | Y | 2/3 |
|  | NIT Manipur, Langol, Imphal | Prof. (Dr.) Goutam Sutradhar  Dr. Anil Kumar Birru (Alternate)  Dr. Sabindra Kachhap(Alternate) | Y | Y | Y | 3/3 |
|  | Steelcast Limited, Bhavnagar , Gujarat | Shri B C Routray | N | N | N | 0/3 |
|  | The Wesman Engineering Co Pvt Ltd | Shri Ranjan guha (Principal)  Shri Ashutosh Mondal (Alternate)  Shri Partha Chatterjee (Alternate) | Y | Y | N | 2/3 |
|  | Versatile Equipments Pvt.Ltd, Kolhapur | Shri Pushkraj Janwadkar  Shri Pradeep Parit (Alternate) | Y | N | Y | 2/3 |
|  | National Metallurgical  Laboratory, Jamshedpur | Dr. D.N Paswan  Ms. Minal Shah (Alternate) | Y | N | Y | 2/3 |
|  | Disa India Ltd, Bangalore | Shri Sunil Kumar Ghosh  Shri Suresh Kumar A (Alternate) | Y | N | Y | 2/3 |

Annexure-3

