**AGENDA OF THE MEETING**

|  |  |  |
| --- | --- | --- |
| BUREAU OF INDIAN STANDARDS  (METALLURGICAL ENGINEERING DEPARTMENT) | | |
| Ferro-Alloy Sectional Committee, MTD-05 | | |
| Meeting Date & Time | 20th December 2024 & 10 : 00 AM | |
| No. of Meeting | 4th Technical Committee Meeting | |
| Mode | Virtual | |
| Meeting Link | <https://bismanak.webex.com/bismanak/j.php?MTID=m1e2b806a5dd09b15e35ea2b3e447d271> | |
| Meeting Id | 2516 229 0219 | |
| Password | mtd5 | |
| Chairman: Dr. M. Vasudevan | | **Member Secretary:** Smt. Challakonda Vidisha |

**Item 0. GENERAL**

**0.1** Welcome remarks by BIS

**0.2** Opening Remarks by the Chairman

**Item 1. CONFIRMATION OF MINUTES OF LAST MEETING**

**1.1** The Minutes of 3rd meeting of Ferroalloys Sectional Committee, MTD-05 held on 3rd October 2024 (Thursday) via physical mode, were circulated to the members via BIS Portal dated 18th October 2024.

No comments have been received.

**The committee may confirm the minutes of the previous meeting.**

**Item 2. ACTION TAKEN REPORT**

**2.1** The actions taken in response to the decisions made during the previous meeting of MTD 05 are reported in **[ANNEXURE-I](#Aneexi).**

**The committee may deliberate and decide.**

**Item 3 PROCESS REFORMS (A)**

**3.1 Rolling annual action Plan for the year 2024-25.**

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**3.1.1** Following documents are under WC:

There are currently no draft documents under Wide Circulation.

**3.1.2** Following documents are under P-Circulation:

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No. | IS No. | Doc. No. | IS Title |
|  | IS 2085: 1962 | MTD/13/21012 | Code for designation of ferro - alloys |
|  | IS 3013: 1991 | MTD/13/22484 | Ferroboron - Specification |
|  | IS 1171: 2011 | MTD/05/25313 | Ferromanganese - Specification |
|  | IS 1470: 2013 | MTD/05/25314 | Silicomanganese - Specification |
|  | IS 1468: 2000 | MTD/05/25538 | Ferrotitanium - Specification (Fourth Revision) |
|  | IS 2021: 1993 | MTD/05/25540 | Manganese metal - Specification (Second Revision) |
|  | IS 1467: 1993 | MTD/05/25542 | Ferrotungsten - Specification (Second Revision) |
|  | IS 1170: 1992 | MTD/05/25543 | Ferrochromium - Specification (Second Revision) |

**3.2** Drafts under Preparation

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No. | IS No. | Doc. No. | IS Title |
|  | IS 1110: 2023 | MTD/13/22878 | Ferrosilicon and Alloyed Ferrosilicon – Specifications |
|  | IS 2301: 2000 |  | Metallic Silicon |
|  | IS 3011: 1973 | MTD/13/21017 | Specification for ferrosilicozirconium (First Revision |
|  | IS 1472: 1977 |  | Methods of sampling ferro-alloys for determination of chemical composition (First Revision) |
|  | IS 1466: 1985 |  | Specification for ferrovanadium (Third Revision) |
|  | IS 1469: 1993 |  | Ferromolybdenum - Specification (Fourth Revision) |
|  | IS 4182: 1988 |  | Specification for misch metal (First Revision) |

**3.3 Annual Calendar of Technical Committee meetings**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No. | Meetings planned for FY 2024-25 | Date & Time | Mode/Venue |
|  | First Meeting | 10th May 2024 | Hybrid |
|  | Second Meeting | 3rd October 2024 | Physical, IIT Madras |
|  | Third Meeting | 1st week of December, 2024 | Virtual |
|  | Fourth Meeting | 17th February 2025 | Hybrid |

**Item 4. SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE, MTD 05**

**4.1 Review of the membership in the Committee** - In accordance with the guidelines, the composition should be compact and the membership of the committee shall be reviewed after 3 years and the organizations representing for reasonable long time without participation/contribution may be substituted by new organization that are capable of contributing in the new technologies/area of work. BIS has issued following guidelines for appointment of members in the sectional committees.

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**The committee may note.**

**4.2 Balancing of all interested groups in the Committee** - It has been decided that the composition of the Technical Committee should be reviewed to have at least two third of the committee members representing Consumers/Technical Bodies/R&D/Testing Laboratories/ educational institutions/ Govt. Departments etc., and the representation of the manufacturing industries/Associations of Industries should be not more than one third of the committee members. NGO’s and Consumer Organizations may be co-opted in Technical Committees where there is no adequate representation.

**4.3 The Size of the Committee** - The size of the committee is often a compromise between a reasonably broad basis of representation and the need to restrict membership to workable numbers. Generally, a smaller membership will be appropriate for a committee dealing with detailed aspects of a standard, with wider representation being provided at the more senior committee levels. In order to keep committee to a workable size, **the strength of Sectional Committee is generally 30** and it should have individuals (in personal capacity or as representative of an organization) with widely acknowledged domain area expertise and experience on the subjects covered by the scope of the Sectional Committee. Whenever an organization viz. Ministry, Industry Association or Research and Academic Institutions is included in the Sectional Committee, it should be ensured that the person representing the organization is clearly specified and has the desired standing.

The present composition of sectional committee is given at **[Annexure-II](#Aneexii).**

**4.4** **Attendance of members in the committee -** If a member fails to attend a meeting of the Sectional Committee, communication should be sent to the competent authority in the organization by the Head of the Department concerned seeking his cooperation in the functioning of the Committee and also warning letter will be issued to the members. If the member concerned fails to attend consecutive meetings of the Sectional Committee meetings even after the communication/warning letter was sent, his/her membership shall be liable to be terminated. The Sectional Committee should review all these cases and the cases of absentees of serious nature and make suitable recommendations for their replacement to the Divisional Council.

**4.5 The committee in its previous meetings after deliberation, decided to send mail regarding fresh nominations to the following organizations in the committee:**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No | Organization | Decision of the committee in previous meetings | Action Taken |
|  | Mishra Dhatu Nigam Limited, Hyderabad | The committee in its 2nd meeting requested Shri A Phani Kishore, MIDHANI to provide nomination for the alternate member from their organization.  An email regarding fresh nominations was sent to Shri A. Phani Kishore on 29th May 2024, but no reply has been received.  A reminder was sent on 16th August 2024.  The committee in its 3rd meeting advised the member secretary to resend the emails regarding the fresh nominations. | Fresh nomination for the principal member was received via email on 5th July 2024 which was missed out inadvertently.  The member has been added in the composition.  **The committee may please note.** |
|  | IFAPA | The committee agreed to the request of Shri Tanmay Kumar Patnaik to accept the fresh nominations from IFAPA who has technical expertise, in place of the existing members. | Fresh nominations of technical experts have been received from IFAPA and have been added to the committee composition.  **The committee may please note.** |
|  | BARC | The committee requested Dr. Bikas Chandra Maji to provide nomination for the alternate member from their organization. | Mail regarding nomination for the alternate members has been sent on 13th December 2024.  **The committee may please note and decide.** |
|  | Elkem South Asia Private Limited, Navi Mumbai | NA | The email address for Shri Manish Kumar (alternate member) is not functioning.  **The committee may please note and decide.** |

**4.6 The committee in its previous meetings after deliberation decided to co-opt following organizations in the committee:**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No | Organisation | Decision of the committee in its previous meetings | Action Taken |
|  | Nuclear Fuel Complex, Hyderabad | The committee requested Dr M. Vasudevan to give the contact details of the relevant person to be contacted to the member secretary in order to get the nominations from the organization  Nomination for a principal member was received and added to the composition. Mail has been sent seeking nominations for alternate member but no reply has been received.  The committee in its 2nd meeting requested Shri Kumar Vaibhaw to provide nominations for an alternate member from their organization.  An email regarding the nomination for an alternate member was sent on May 13, 2024, no reply received till date.  A reminder was sent on September 11, 2024.  The committee in its 3rd meeting again requested Shri Kumar Vaibhaw to provide nominations for an alternate member from their organization. | Nomination for the alternate member has received from NFC and the member has been added in the composition.  **The committee may please note.** |
|  | Indian Stainless Steel Development Association | The committee after deliberation requested member secretary to write letter for co-option to Indian Stainless Steel Development Association to get the nominations from them.  Mail regarding co-option was sent to Indian Stainless Steel Development Association, dated 12th April 2024, but no reply has been received.  The committee in its 2nd meeting decided to wait for the nominations.  No reply has been received to date.  A reminder was sent on September 11, 2024.  The committee in its 3rd meeting requested member secretary to write letter again for co-option to Indian Stainless Steel Development Association to get the nominations from them. | Mail regarding co-option was again sent to Indian Stainless Steel Development Association on dated 13th December 2024, but no reply has been received.  **The committee may please note and decide.** |
|  | Indian Institute of Technology–Madras (IIT–Madras) | The committee after deliberation requested member secretary to write letter for co-option to Indian Institute of Technology–Madras (IIT–Madras) to get the nominations from them.  Mail regarding co-option was sent to IIT–Madras, dated 12th April 2024, but no reply has been received.  It was informed via telephonic communication that the concerned HOD is not available and the request will be forwarded as soon as he is available.  Dr. M. Vasudevan in its 2nd meeting advised the Member Secretary to contact Dr. KG Pradeep, IIT Madras for nominations.  Prof. Pradeep has been nominated by the HOD as the representative from their department for the sectional committee.  The committee in its 3rd meeting accepted the nomination of Shri KG Pradeep and requested him to provide nominations for an alternate member from their organization. | Nomination for the alternate member has received from IIT–Madras and the member has been added in the composition.  **The committee may please note.** |

**4.7** As per the office order No. PNC09/18/2023-PNC-BIS dated 05-09-2023, the following guidelines are issued for the Effective Implementation of the Process Reforms Aimed at the Strengthening of the Standardization Ecosystem in the Country:



1. Each of the members of a Technical Committee shall be required to sign a declaration concerning the duties and responsibilities of the member of a Technical Committee in the form prescribed by BIS.
2. It shall be mandatory for a member of the Technical Committee to record his comments in regard to a Preliminary Draft Standard. In case, a member feels that the subject draft deals which is not related to his domain knowledge, he should have it mentioned in his comment.
3. Absence from two consecutive and less than 50 percent of the meetings of the TC held in a year shall invite termination of the membership except in special circumstances acknowledged in the writing by the Divisional Council on the basis of the recommendation of the TC to this effect.
4. The quorum for the TC meeting shall be 10 or one third of the members, whichever is higher.
5. A person whose membership is terminated on the ground of absence from the meetings or not responding to the Preliminary Draft standard shall not be eligible to be re-inducted as a member in any of the TCs of BIS for two years from the date of termination.

As per the above directions of DG, BIS instructions for the effective  implementation of the process reforms aimed at the strengthening of the standardization ecosystem in the country (attached herewith) ,"Declaration by the Member of the Technical Committee of BIS"  (format is attached herewith) is to be submitted mandatorily by every member of technical committee, Accordingly members were kindly requested to send the signed copy of the declaration latest by 5th May 2024 vide mail dated 24th April 2024.



**4.8** Termination notices have been sent to the following organizations which have not participated in the last sectional committee meeting requesting their active participation in the upcoming meetings of the committee and that their membership will be terminated if they don’t participate in 4th Sectional Committee meeting. The sectional committee may please note and give recommendations for the replacement of these organizations.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl No. | Organization | Member | Decision of the committee during last meeting | Remarks |
|  | Arcelor Mittal and Nippon Steel India Ltd. (AM/NS India) | Dr Atanu Ranjan Ojha | The committee decided to retain the organization’s membership as an explanation letter was received from Dr Atanu Ranjan Ojha for his absence during the 2nd TC meeting and that he could not attend 3rd meeting as the meeting is in physical mode. However, the committee also decided that the membership will be terminated if they don’t attend the next meeting. | Termination notice sent on 13th December 2024. |
|  | Shri Ch V S Nd Hariprasad | Termination notice sent on 13th December 2024. |
|  | CSIR-Institute of Minerals & Materials Technology (IMMT), Bhubaneswar | Dr. Swagat S. Rath | NA | Termination notice sent on 13th December 2024. |
|  | Dr S. P. Das | NA | Termination notice sent on 13th December 2024. |
|  | Elkem South Asia Pvt Ltd., Nagpur | Shri Kumar Kislay | NA | Termination notice sent on 13th December 2024. |
|  | Shri Manish Kumar | NA | Termination notice sent on 13th December 2024. |
|  | Inspectorate Griffith India Pvt Ltd, Bhubaneswar | Shri Sudip Kumar Chattopadhyay | NA | Termination notice sent on 13th December 2024. |
|  | Smt Nalanda Sen | NA | Termination notice sent on 13th December 2024. |
|  | JSW Steel Ltd (Karnataka) | Shri C.R.Pramod Kumar | NA | Termination notice sent on 13th December 2024. |
|  | Shri N Sairam Krishna | NA | Termination notice sent on 13th December 2024. |
|  | Midhani, Hyderabad | Shri A Phani Kishore | NA | Termination notice sent on 13th December 2024. |
|  | MOIL, Nagpur | Shri Rajesh Bhattacharya | NA | Termination notice sent on 13th December 2024. |
|  | Smt Sneha Tiwari | NA | Termination notice sent on 13th December 2024. |
|  | NIT, Rourkela | Smt. Archana Mallik | NA | Termination notice sent on 13th December 2024. |
|  | Shri Soumitra Kumar Dinda | NA | Termination notice sent on 13th December 2024. |
|  | SAIL - Durgapur | Shri Debashis Ranjan Das | NA | Termination notice sent on 13th December 2024. |
|  | Shri Shib Sankar Roy | NA | Termination notice sent on 13th December 2024. |

**The committee may deliberate and decide.**

**4.9** The following co-option requested have been received:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl No. | Organization | Remarks | Comments | Decision of the committee | Action Taken |
| 1. | DGQA, Ichapur | Nominations have been received from the organization and are listed below: | The committee may consider the co-option request. | The committee decided to add Dr Jana Bhattacharya Roy in the Working group for the revision of IS 2085. | Dr Jana Bhattacharya Roy has been added in the Working group for the revision of IS 2085.  **The committee may please note.** |
| 2. | Geological Survey of India | |  |  | | --- | --- | | Name | Shri Vamshi Krishna Palleti | | Email ID | [vamshi.palleti@gsi.gov.in](mailto:vamshi.palleti@gsi.gov.in)  vamshi121035@gmail.com | | Mobile Number | 8919443984 | | Designation | Chemist | | CV |  | | Paper Published |  | | According to Shri A. Kannan, Shri Vamshi Krishna Palleti's CV seems good and is recommended for inclusion in the committee.  The committee may deliberate and decide if Shri Vamshi Krishna Palleti can be added to a working group for revision of IS 4182 : 1988 (Specification for Misch Metal) | The committee decided to add Shri Vamshi Krishna Palleti in the Working group for the revision of IS 4182. | Shri Vamshi Krishna Palleti has been added in the Working group for the revision of IS 4182.  **The committee may please note.** |
| 3. | TEAM FERRO ALLOYS PVT. LTD. | |  |  | | --- | --- | | Name | Shri Debasish Saha | | Email ID | [d.saha@teamferro.com](mailto:d.saha@teamferro.com) | | Mobile Number | 9824375327 | | Designation | COO | | CV |  | | NA | The committee decided to take this nomination from Industry association (IFAPA) instead of individual industry. | However, Shri Anoop Gutgutia and Shri N. Suresh Chandar Rao were nominated by IFAPA.  **The committee may please note and decide.** |
| 4. | Premier Alloys & Chemicals Pvt. Ltd., Hyderabad | NA | NA | NA | Approval has not been taken yet for addition to the working group. However, Shri Ravi Marda attended working group meetings as an invitee on behalf of IFAPA.  **The committee may please note and decide.** |

**Item 5. LIST OF INDIAN STANDARDS**

**5.1** The list of standards under the Programme of Work of MTD 05 is placed at **[Annexure III](#AneexiiI).**

**The committee may please note**.

**Item 6. COMMENTS ON PRINTED STANDARDS**

**6.1** No comments were received on the Indian Standard of the committee since the last meeting.

**Item 7. REVIEW OF INDIAN STANDARDS**

**7.1 Periodical Review of Standards**

Each published Indian standard is required to be reviewed by the concerned sectional committee after every five years of its publication/Reaffirmation. The guidelines given by Standards Advisory Committee (SAC) are as follows:

1. The standards may be reaffirmed in its present form;
2. The standards may be reaffirmed with minor changes by issuing an amendment;
3. The standards may be reaffirmed with simultaneously taking up the revision; and
4. The standards may be withdrawn.

**7.1.1** The review of each and every existing Indian standard shall follow the **Action Research** based approach. This implies that preparation of a Review Document to be put up to the committee for consideration must be preceded by the following activities:

1. Study and analysis of relevant international standards.
2. Literature survey on the subject.
3. Interaction with the industry on the changes in the technologies, manufacturing processes or test methods.
4. Visit to leading manufacturing units for the first-hand information on the manufacturing processes.
5. Interaction with BIS officers and labs for feedback on certification and test method related issues.

**7.1.2** The Action Research for the review of standards can be assigned to the member secretary of the Sectional Committee, scientific officers of BIS, members of the Sectional Committee, sub-committee or working panel, academic or research institution, industry association, a specific industry or ministry and an organisation thereunder. The Sectional Committee shall decide the individuals or organisations to be assigned Action Research projects.

**7.1.3** Review of standards shall be taken up through the Review Module of the Standardization Portal.

**The Committee may please note.**

**7.2** **Reaffirmation of Indian Standards:** The present directives indicate that the standards fall under the above category shall be reviewed thoroughly and while reviewing following points should be considered.

1. Does the Standard meet the present demand of the industry and the consumers?
2. Is it compatible with the available international standards?
3. Whether are these standards required to be continued or not?
4. Prospective implementation of the standard.

**7.2.1** The Indian Standards of the committee that are due for review/reaffirmation are given in **[Annexure-IV](#AneexIV).** The committee may take any of the decisions like reaffirmation, Reaffirmation & Amend, Reaffirmation & Revision, reaffirm & archive, & withdraw of any of the list of standards.

**The Committee may please deliberate and decide.**

**7.3 Review of Pre 2000 Indian Standards –** As a new initiative taken by BIS, standards which have been formulated several years ago (prior to 2000) are to be reviewed in order to bring them in line with the current practices being followed in the industries.

**7.3.1** The Pre 2000 Indian Standards of the Committee that have been identified and are due for review during the year 2024 and 2025 are given in [**Annexure-V**](#Aneex5)**.** However, the Indian Standards which are already allocated to BIS officers or committee members for the review are highlighted with red font.

**The Committee may please deliberate and decide.**

**7.4** For taking up the review of Indian standards through Standardization portal, the following documents serve as a guide for members:



**The committee may please note.**

**Item 8. NEW SUBJECTS FOR STANDARDIZATION**

**8.1** 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 beforehand and present it in the meeting for consideration of the committee. The sample proforma is given below:

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**8.2** It may further be added that the proposal received at **8.1** has to be analysed 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; and
  4. Only those subjects should be taken up which have a potential to mature into a standard in the stipulated time.

**8.3 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.

**8.3.1** 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.**

**8.4 Proposal for New Subject**

No new proposals received.

**Item 9. WTO-TBT Enquiry Point**

**9.1** 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 fulfil 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.

**9.2** 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.

**9.3** 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.

**9.4 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.

**9.5** 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.

**9.6** The email address of BIS Enquiry Point is as follows:

BIS Email:  [info@bis.org.i](mailto:info@bis.org.in)n

**The Committee may note**.

**Item 10. INTERNATIONAL ACTIVITIES**

**10.1 Interaction with ISO**

**10.1.1** 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.

**10.1.2** India is ‘P’ member on the following technical committee:

|  |  |  |
| --- | --- | --- |
| Sl. No. | Sub Committee No. | Scope |
|  | ISO/TC 132 | Ferroalloys |

**10.1.3 Closer examination of the New Work Item Proposals received from ISO**

**ISO/TC 132** : Ferroalloys

Documents under development:

* ISO 7692 Ferrotitanium — Determination of titanium content — Titrimetric
* ISO/AWI 9681 Manganese ores and concentrates — Determination of iron content — Flame atomic absorption spectrometric method

**10.1.3.1** Status of India on ISO/TC 132 and the details of the standards formulated by this ISO Technical Committee are given below:

1. **ISO/TC 132 :** [**https://www.iso.org/committee/52364/x/catalogue/p/1/u/1/w/1/d/1**](https://www.iso.org/committee/52364/x/catalogue/p/1/u/1/w/1/d/1%20)

**The committee may note.**

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

**10.2.1** India being a **‘P’** member as mentioned in **10.1.2**. **‘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.

**The committee may note.**

**10.3 ISO Ballots received:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Committee** | **Reference** | **Title** | **Voted** | **Last Date for voting** |
| CIB | ISO/TC 132 | ISO/FDIS 7692 (Ed 2) | Ferrotitanium — Determination of titanium content — Titrimetric method | Abstention | 6th December 2024 |

As a part of digitalization, a new IR portal has been launched which can be accessed by logging in to the BIS portal. All the upcoming ballots including the above will be shared via portal and the comments may also be submitted via portal.

**10.4 Harmonizing of Indian standards with ISO standards**

**10.4.1** 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.

**10.4.2** 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, will be tabled during the meeting for consideration of the committee.

In 3rd TC meeting following standards have been identified as potential subjects that can be adopted.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **ISO No.** | **ISO Title** | **Decision of the committee during previous meetings** | **Comments** | **Decision of the committee during last meeting** | **Action Taken** |
| 1 | ISO 8954-1:1990 | Ferroalloys — Vocabulary — Part 1: Materials | The committee after detailed deliberation requested IGCAR to review the standard and provide their comments/recommendations within 2 months. | ISO 8954-1 Ferroalloys - Vocabulary may not be directly adopted for the Indian Standard - Ferroalloys: Vocabulary. Based on our recent developments of IS Ferroalloys standards, a comprehensive vocabulary for the IS standard needs to be developed. However, the ISO 8954-1 Ferroalloys - Vocabulary standard can serve as a reference for this development.” | The committee decided to formulate a single indigenous Indian Standard for vocabulary and to form a working group with the following members for formulation of this standard -   1. Dr. Sanjay Agarwal from CSIR - NML. 2. Dr. J. Christopher from IGCAR. 3. Prof. Archana Mallik from NIT, Rourkela. | The working group meeting still needs to be conducted.  **The committee may please note and decide.** |
| 2 | ISO 8954-2:1990 | Ferroalloys — Vocabulary — Part 2: Sampling and sample preparation | The committee after detailed deliberation requested Dr Sanjay Agrawal, NML to review the standard and provide comments/ recommendations within 2 months. | Vocabulary on Sampling and sample preparation is ok in the current form as all the points are well discussed for sampling and same preparation. |
| 3 | ISO 8954-3:1990 | Ferroalloys — Vocabulary — Part 3: Sieve analysis | The committee after detailed deliberation requested Prof. Archana Mallik, NIT Rourkela to review the standard and provide comments/ recommendations within 2 months. | The mail was sent on 31st May 2024, requesting comments, but no reply was received.  A reminder mail was also sent on 11th September 2024. |

**Item 11 BIS Initiatives**

**11.1 Pro-Active Actions Taken for Dissemination of Information through Social Media:**

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

1. Twitter: <http://bit.ly/BISTwitterOfficial> (@IndianStandards)
2. Facebook: <https://www.facebook.com/IndianStandards/>
3. (BIS Facebook Official - <http://bit.ly/BISFacebookOfficial>)
4. LinkedIn: <http://bit.ly/BISLinkedInOfficial>
5. Youtube: <http://bit.ly/BISYouTubeOfficial>
6. Instagram: <https://www.instagram.com/indianstandards/>

**The Committee may please note**

**11.2 Introducing Young Professionals in the Standardization Activity of BIS:**

Presently BIS allows each organization represented on various technical committees of BIS to nominate two representatives from the organization – a principal member and an alternate member. In order to encourage the participation of young professionals in the standardization activity, it has now been decided to allow each organization to nominate an additional alternate member on the technical committees in which the organization is represented, provided the additional representative is a young professional up to the age of 37 years and having expertise in the respective discipline.

**The Committee may please note**

**11.3 Digitization/Fully automation of standards formulation work through standardization portal:**

All the committee work including Request for Co-option, proposal for new/revision of standards, commenting on the existing standards or standards under development, all the communication with the members, including the agenda and minutes of the meeting should take place through Standardisation Portal only. Standardisation portal has provisions for both recording the date of the Sectional Committee meetings and timelines for each of the proposals for the formulation/revision of standards. The link for the standardization portal is as below:

<https://www.services.bis.gov.in/php/BIS_2.0/>

**11.4 Conducting of quarterly meetings of Sectional Committees:**

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 Standardisation 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).

**11.5 Formulation of Search Committees**

As per the guidelines issued under the structural reforms in BIS, MTDC in its 31st meeting it was decided to reconstitute the search committee (as given below), since Shri Nirvik Banerjee Chairperson MTD 04 requested to relinquish him from the responsibilities of convenor of search committee

a) Chairperson of MTD 24 TC, Dr U. Kamachi Mudali – ***Convenor***

b) Chairperson of MTD 03 TC, Dr Vikas Kumar – Member

c) Chairperson of MTD 16 TC, Shri T Muthukumar – Member

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

**11.6.1** 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**.**

**11.6.2** 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.

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

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



**The Committee may please note.**

**Item 12. R&D PROJECTS FOR ESTABLISHMENT/REVISION OF INDIAN STANDARDS**

**12.1** The current guidelines for R&D projects for establishments /revision of Indian Standards under XII plan funds are given below:

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**12.2 Terms of Reference**

TOR’s for the revision of the following standards have been prepared:

1. IS 12908 : 1990 - Ferroaluminium – Specification



1. IS 2023 : 1993 - Chromium metal - Specification (Second Revision)



**The Committee may please note.**

As decided by the committee in its 2nd meeting, both the TOR’s were circulated within the committee via email on 3rd June 2024, for a period of 2 weeks for comments and inputs from members. The following comments were received:

|  |  |  |
| --- | --- | --- |
| Sl No. | Name of the member | Comment |
|  | Shri J Christopher | 1. Chemical, physical, and mechanical properties are broad categories. It is important to specify the particular properties within each category for better clarity. This comment is applicable for both TOR2 and TOR5. 2. The methodology for the removal of hexavalent chromium, as well as the specific procedures for its testing and identification, should be clearly outlined in the scope, methodology and testing. 3. “Testing shall be conducted only on any of the Govt. /BIS recognized/NABL/CSIR accredited labs.” Testing is more generic term. The specific types of testing involved must be specified. This comment is applicable for both TOR2 and TOR5. |

The committee in its 3rd meeting noted the information at Item 12 and decided to hold a special meeting to discuss the TOR’s.

Special meeting for the discussion of TOR’s still needs to be conducted.

**Item 14 ANY OTHER BUSINESS**

**[ANNEXURE-I](#Aneex1)**

**[(Item 2.1)](#Aneex1)**

**ACTION TAKEN REPORT**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl No. | Subject | Decision of the committee during previous meetings | Action Taken |
|  | IS 1110: 2023 Ferrosilicon and Alloyed Ferrosilicon - Specifications | **Previous meeting of MTD 13**  Comments were received from Shri Kumar Kislay of M/s Elkem Nagpur vide email dated 28-04-2023. The comments are given below:    Panel meeting was held on 18/05/2023 and during the panel meeting Shri Dushyant Pathak of M/s Elkem present the presentation. PPT is placed below:    The panel after deliberation suggested M/s Elkem to provide Research Paper, R & D work done, Journals and standards that justify the proposed grades.  Further, the panel decided to revise the standard by including the grades into the Standard.  An Industrial visit was on 26 May 2023 to M/s Elkem South Asia Pvt. ltd., Nagpur. Verified the manufacturing practice and gathered relevant R&D documents about the new grades.  The Draft is P-Circulated on 10/07/2023.  No comments were received on P-Draft stage.  Accordingly, the draft for Wide Circulation is prepared and placed below:    The committee after detailed deliberation, decided to circulate the document as Wide Circulation for 1 month and if no comments were received /comments received are editorial in nature send for printing.  **1st meeting of MTD 05**  The committee also requested Shri Kumar Kisley, M/s ELKAM to provide recommendations/suggestions for formulation of test Methods for the determination of Ba, Sr, Zr, Ce, and Mn along with sample preparation method and sampling in Ferrosilicon and Alloyed ferrosilicon. The recommendations given will be forwarded to the respective sectional committee (MTD-34)  Draft yet to be wide circulated. It was observed that some grades in Table-1 & 2 are overlapping. Also, the minimum content of alloying elements may be indicated to differentiate alloyed Ferrosilicon and Ferrosilicon.  Test Methods for the determination of Ba, Sr, Zr, Ce, and Mn in Ferrosilicon and Alloyed ferrosilicon are to be validated & Working draft has to be finalized.    Recommendations/suggestions are still awaited. Reminder mail was sent on 18th April 2024.  The draft submitted by Shri Kumar Kisley, M/s ELKAM is placed below.    However, validation is pending.  **2nd meeting of MTD 05**  The committee after detailed deliberation decided to hold a panel meeting regarding definition of alloyed ferrosilicon, classification of grades into alloyed ferrosilicon and ferrosilicon, minimum amount of total inoculants content to avoid overlapping grades etc. and to finalize the draft document, P-circulate among committee members for 2 weeks for their review. If no comments are received, wide circulate for 1 month.  Email was sent to Shri Kumar Kislay on 10th September 2024 to provide his comments on the queries raised in draft, no reply received yet.  It was decided to form working groups for each standard under revision. In view of the above, it is recommended to convert existing panel to working group.  Draft will be forwarded to the working group once again for resolving the queries.  **3rd meeting of MTD 05**  Clarifications provided by Shri Kumar Kislay vide email dt. 28-09-2024 were discussed and the committee after deliberation decided that more discussion is required and to be discussed in the working group again.  The committee agreed to convert existing panel to a working group including following members -   1. Shri Rajeev Kumar Singh from SAIL, RDCIS 2. Shri Kumar Vaibhaw from Nuclear Fuel Complex   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | The working group meeting was held on 13 November 2024 and the minutes are placed below:    Mail received from Shri Kumar Kislay expressing difficulty in listing different varieties of inoculant grades is placed below:    An amendment has been drafted as below which is expected to address the immediate requirement effectively.    **The committee may deliberate and decide.** |
|  | New proposal- Methods for the determination of Ba, Sr, Zr, Ce, and Mn in Ferrosilicon and Alloyed ferrosilicon. | **Previous meeting of MTD 13**  As there were no Indian Standards formulated to determine the chemical analysis of Ba, Sr, Zr, Ce, and Mn in Ferrosilicon and Alloyed Ferrosilicon.  During the Industrial visit on 26 May 2023 to M/s Elkem South Asia Pvt. ltd., Nagpur. Member secretary had collected the relevant testing practices used to determine the chemical composition.  **1st meeting of MTD 05**  The committee after detailed deliberation, requested Shri Kumar Kisley, M/s ELKAM to provide his recommendations/suggestions for formulation of test Methods along with sample preparation method and sampling for the determination of Ba, Sr, Zr, Ce, and Mn in Ferrosilicon and Alloyed ferrosilicon. The recommendations given will be forwarded to the respective sectional committee (MTD-34).  Recommendations/suggestions are still awaited. Reminder mail was sent on 18th April 2024.  **2nd meeting of MTD 05**  The committee after detailed deliberation requested Shri Kumar Kisley, M/s ELKAM to provide ILC reports, Certificates of Reference Materials and relevant documents to validate the methods proposed.  Reminder email was sent to Shri Kumar Kislay on 29th May 2024 and again on 10th September 2024, but no reply has been received to date.  **3rd meeting of MTD 05**  Shri Kumar Kislay vide email dt. 28-09-2024 mentioned that he has already sent the valid justification and standards for analysis methods for different elements which can be followed, except for two elements. He will need some time to collect sufficient data for the same and has also involved his European counterparts for this work, and is expected to be completed shortly.    The data provided by Shri Kumar kislay will be shared with MTD 34. | Complete details are yet to received from Shri Kumar Kislay.  **The committee may deliberate and decide.** |
|  | IS 2085: 1962 Code for designation of ferro - alloys | **Previous meeting of MTD 13**  As a part of Action Research Project, Member secretary had reviewed IS 2085 and submitted following observation:    In 2nd meeting, the committee decided to prepare the following panel-1 to give their views/suggestions:  a. M/s Indian Metals & Ferro Alloys Limited (Convenor)  b. M/s Jindal Stainless Limited, Hissar  c. M/s JSW Steel Ltd.  d. M/s Bhabha Atomic Research Centre  e. M/s CSIR (IMMT)  f. M/s Midhani  P-Draft is circulated among members on 10-11-2022. However, the committee felt that there few more changes that are need to be made in the standard.  The draft document was prepared by member Secretary and circulate as the working draft among members for their views. However, no comments were received.    **1st meeting of MTD 05**  The committee requested Member Secretary to incorporate changes suggested by the committee and to P-circulate the draft standard among committee members for their review for 2 weeks and if no comments were received, then to circulate the document as Wide Circulation for 1 month.  Draft has been prepared and is placed below:    **2nd meeting of MTD 05**  The committee after detailed deliberation decided that the revised draft document will be P-circulated among committee members for 21 days and if no comments were received/comments received are editorial in nature, the draft will be wide circulated for 1 month.  The draft is prepared and is placed below. However, some more changes are required and the draft is yet to be P-circulated.    **3rd meeting of MTD 05**  The committee after deliberation decided that some more changes are required to be made in the draft and to form a working group for the revision of the standard with the following members –   1. Shri Rajeev Kumar Singh from SAIL, RDCIS 2. Shri Tanmaya Kumar Pattnaik from IFAPA 3. Prof SankaraRaman Sankaranarayanan from NIT, Trichy 4. Tata Steel Limited 5. Dr. Sanjay Agarwal from CSIR, NML 6. Dr Jana Bhattacharya Roy from DGQA, Ichapur   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 14 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 2301: 2000 Metallic Silicon | **Previous meeting of MTD 13**  Comment received from M/s NMDC are given below:    Comment received from M/s Elkem are given below:    In the 21st meeting MTD 13, the committee decided to prepare a panel with:  a) M/s Silicon Metal Industry  b) M/s Fondelco Metals and Ferroalloys pvt. ltd.  c) M/s Metallic Corporation India.  and to collect views/recommendations from the panel.  It is informed that, any of the panel members have expertise in the field of metallic silicon.  The comments were circulated among members along with agenda of the meeting.  **1st meeting of MTD 05**  The committee after detailed deliberation requested Shri Kumar Kisley to give more details about the comments along with justification to which Shri Kumar Kisley has mentioned that there are no experts from their organization related to metallic silicon but the comments were given with the help of one of their stake holder (M/s Minex Metallurgical Co. Ltd.) to which committee requested him to provide the contact details of stakeholders and requested member secretary to get detailed information on the comments received via email and then formulate the draft document and circulate among the committee members for their review for 2 weeks. If no comments were received, circulate the document as Wide Circulation for 1 month.  The committee after detailed deliberation decided that as the standard is already under revision hence decided to **reaffirm and revise** the standard.  The mail seeking the contact details of nomination authority of the organization was sent to Shri Kumar Kisley.  However, it was informed that the organization is no longer dealing with Ferrosilicozirconium or metallic silicon for the past few years and are not interested to contribute to the standard.    **2nd meeting of MTD 05**  The committee after detailed deliberation requested Shri Kumar Kisley, M/s ELKAM to review the standard and incorporate comments submitted by NMDC & ELKEM and submit working draft within 1 month to the committee. The recommendations will be circulated among the committee members for 2 Weeks’ time for their views/comments. If no comments were received/comments received are editorial in nature, then wide circulate the document for 1 month.  Reminder email was sent to Shri Kumar Kislay on 29th May 2024 and again on 10th September 2024, but no reply has been received till date.  A working group to be formed for preparation of final draft.  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members –   1. Dr Vibhuti Roshan from NMDC 2. Shri Kumar Kislay from Elkem 3. Shri KG Pradeep from IIT, Madras   The committee requested the Working group to provide the final draft within two months.  The final draft provided by the working group will be circulated to all the committee members for 21 days for their comments. | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 3011: 1973 Specification for ferrosilicozirconium (First Revision) | **Previous meeting of MTD 13**  As a part of Action Research Project, BIS officer Shri Sachin Dev Meena has reviewed IS 3011 on 18/10/2022 and submitted following observation:    Comments were received Vipul Bohara on08 Aug 2022**.** Placed Below    MTD13 in its 23rd meeting, after detailed deliberation decided to circulate the document as the WC draft for one month.  Member secretary had prepared WC Draft for circulation and sent to WC on 28/06/2023. However, it is observed that, many grades are available in the market. And hence, the standard can be reviewed once again.    **1st meeting of MTD 05**  The committee after detailed deliberation requested Shri Bikas Kumar Maji, BARC and Shri Kumar Kisley, M/s ELKAM to review the standard and provide their recommendation/ suggestion within 1 month to the committee. The recommendations will be circulated among the committee members for 2 Weeks’ time for their views/comments. If no comments were received, then circulate the document as Wide Circulation for 1 month.  Mails has been sent to Shri Bikas Kumar Maji, BARC and Shri Kumar Kisley, M/s ELKAM to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation again requested Shri Bikas Kumar Maji, BARC to review the standard and provide their recommendation/suggestion within 1 month to the committee. The recommendations will be circulated among the committee members for 2 Weeks’ time for their views/comments. If no comments were received/comments received are editorial in nature, then circulate the document as Wide Circulation for 1 month.  Reminder email was sent to Shri Bikas Kumar Maji on 29th May 2024, but no reply has been received to date.  A working group can be formed to revise this standard.  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members –   1. Shri Kumar Kislay from Elkem 2. Dr. Bikas Chandra Maji from BARC 3. Shri Kumar Vaibhaw from Nuclear Fuel Complex   The committee requested the Working group to provide the final draft within two months.  The final draft provided by the working group will be circulated to all the committee members for 14 days for their comments. | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 3013: Ferroboron - Specification (Third  Revision) | **Previous meeting of MTD 13**  As a part of Action Research Project, BIS officer Shri Ritwick Kar has reviewed IS 3013 and submitted following observation.  The committee after detailed deliberation decided to circulate the document as the P draft for 21 days if no comments received it can be circulated as WC.  Member secretary has prepared the draft document and circulate as P- Draft on 17/05/2023 among the committee members for their comments. However, no comments were received:    **1st meeting of MTD 05**  The committee after detailed deliberation requested IGCAR to review the IS 3013 and give their comments within 1 month to the committee*.* If no comments were received from IGCAR, then circulate the document as Wide Circulation for 1 month. In case, the comments/recommendations were received then the same will be circulated again to committee members for 3 Weeks’ time for their views/comments.  P-Draft has been prepared incorporating recommendations received from IGCAR and is placed below:    The same has been P-circulated to all the committee members via mail dt. 24-04-2024. No comments were received.  **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then Wide Circulate the document for 1 month.  The final draft is placed below:    The queries may be resolved by the committee before wide circulating the draft.  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the clarification of queries and to complete the revision of the standard with the following members –   1. IGCAR 2. Dr. Bikas Chandra Maji from BARC 3. Shri A Pani Kishore from MIDHANI   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 1472: 1977 Methods of sampling ferro-alloys for determination of chemical composition (First Revision) | Comment (Placed Below) was received from Shri Sachchidanand Kumar on 12 Jan 2024**.**  Member secretary had circulated the comments among members along with agenda of the Meeting.  **1st meeting of MTD 05**  The committee after detailed deliberation decided to revise the Indian Standard IS 1472 and requested Shri Kumar Kisley and Shri. Debasish Pal to review and give their recommendations within 2 months. The comments/recommendations will be circulated again to committee members for 2 Weeks’ time for their views/comments. If no comments were received, then to circulate the document as Wide Circulation for 1 month.  Mails has been sent to Dr. Debasish Pal, M/s Alex Stewart and Shri Kumar Kisley, M/s ELKAM to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation again requested Dr. Debasish Pal, M/s Alex Stewart to review the standard IS 1472:1977 & also to review ISO 3713:1987 and provide their recommendation/suggestion either to revise IS 1472 or to adopt ISO 3713 within 3 weeks. The recommendations will be circulated among the committee members for 2 Weeks’ time for their views/comments.  Mail sent to Dr. Debasish Pal, M/s Alex Stewart for review of IS 1472 in comparison with ISO 3713, ISO 4551, ISO 4552 pt-1 & pt-2. No reply received.  Meanwhile the following comments were received during manak Manthan.  A working group can be formed to revise this standard.    **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members –   1. Shri KG Pradeep from IIT, Madras 2. Dr. Sanjay Agarwal from CSIR, NML 3. Prof SankaraRaman Sankaranarayanan from NIT, Trichy 4. Dr. Debasish Pal from Alex Stewart 5. Shri Suyash Trivedi from Jindal Stainless Limited   The committee requested the Working group to provide the final draft within two months  The final draft provided by the working group will be circulated to all the committee members for 14 days for their comments. | The working group meeting was held on 4 December 2024.  Updated Draft document of IS 1472 is attached below :    **The committee may deliberate and decide.** |
|  | IS 1170: 1992 Ferrochromium - Specification (Second Revision) | As a part of Action Research Project, Member secretary had reviewed IS 1170 and observation was placed below;    Member Secretary has prepared the draft document and circulated along with ARP on 14/06/2023. Draft document is prepared to bring the standard in latest style and format.    Also,    **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard and requested Dr Sanjay Agrawal, NML to review IS 1170: 1992 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review**.**  Comments/recommendations were received from Shri Sanjay Agrawal, NML, on IS 1170:1992, which have been incorporated in the draft and P-circulated among the committee members via email dt. 24-04-2024 for their comments and inputs.  The P-draft is placed below:    **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then wide circulate the document for 1 month.  Comments received from IFAPA, IGCAR, SAIL RDCIS, KKBO, CSIR NML were incorporated. The final draft is placed below.    The queries may be resolved by the committee before wide circulating the draft.  **3rd meeting of MTD 05**  The committee after deliberation decided that more discussion is required for clarification of comments and to be discussed in the working group with the following members:   1. Dr. A. K. Mukherjee from Tata Steel 2. IFAPA 3. Dr. Sanjay Agarwal from CSIR, NML 4. IGCAR 5. Shri Rajeev Kumar Singh from SAIL, RDCIS   The committee requested the Working group to provide the final draft within 15 days.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | The working group meeting was held on 14 November 2024.  Updated Draft document of IS 1170 is attached below :    **The committee may deliberate and decide** |
|  | IS 12908: 1990 Ferroaluminum - Specification | **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already considered for R & D project, decided to **reaffirm and revise** the standard.  **2nd meeting of MTD 05**  The committee after detailed deliberation requested the Member Secretary to circulate the TOR within the committee for a period of 2 weeks for comments and inputs from the committee members and if no comments were received then finalize the TOR and proceed for further action. | **Please refer item No. 12.2.** |
|  | IS 12908: 1990 Ferroaluminum (Bi-lingual) | **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already considered for R & D project, decided to **reaffirm and revise** the standard. | **Please refer item No. 12.2.**  Please refer Sl. No. **9** of ATR. |
|  | IS 1466: 1985 Specification for ferrovanadium (Third Revision) | As a part of Action Research Project, Member secretary had reviewed IS 1466 and observation was placed below.    Member Secretary has prepared the draft document and circulate along with ARP on 10/10/2023. Draft document is placed below.    **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already under revision hence decided to **reaffirm and revise** the standard and requested Shri Debasish Pal, Alex Stewart to review IS 1466: 1985 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Mails has been sent to Shri. Debasish Pal, M/s Alex Stewart to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation again requested Shri Debasish Pal, Alex Stewart to review IS 1466:1985 and provide comments/recommendations (if any) along with justification within 3 weeks. Once the recommendations are received, the same will be circulated among committee members for 2 weeks for their review.  Comments received from IFAPA and Mr Debashish pal were incorporated. The working draft is placed below:    A working group can be formed to revise this standard  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members –   1. IFAPA 2. Dr. J. Christopher from IGCAR 3. Shri Rajeev Kumar Singh from SAIL, RDCIS 4. Dr. A. K. Mukherjee from Tata Steel 5. Shri A Pani Kishore from MIDHANI   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 14 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | The working group meeting was held on 20 November 2024.  The panel meeting was held on 17 December 2024.  Updated Draft document of IS 1466 is attached below :    **The committee may deliberate and decide.** |
|  | IS 1467: 1993 Ferrotungsten - Specification (Second Revision) | As a part of Action Research Project, Member secretary had reviewed IS 1467 and observation was placed below:    Member Secretary has prepared the draft document and circulated along with ARP on 10/10/2023. Draft document is placed below.    **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already under revision hence decided to **reaffirm and revise** the standard and requested Shri Debasish Pal, Alex Stewart and Dr M Vasudevan, IGCAR to review IS 1467: 1993 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Comments/recommendations were received from Dr M Vasudevan, on IS 1467: 1993, which have been incorporated into the draft and P-circulated among the committee members via email dt 24-04-2024 for their comments and inputs.  The P-draft is placed below:    **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then wide circulate the document for 1 month.  Comments received from IGCAR and Mr Debashish pal were incorporated. The final draft is placed below:    The queries may be resolved by the committee before wide circulating the draft  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members   1. IGCAR 2. Prof SankaraRaman Sankaranarayanan from NIT, Trichy   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 1468: 2000 Ferrotitanium - Specification (Fourth Revision) | As a part of Action Research Project, Member secretary had reviewed IS 1468 and observation was placed below    Member Secretary has prepared the draft document and circulated along with ARP on 10/10/2023. Draft document is placed below.    **1st meeting of MTD 05**  The committee after detailed deliberation decided that as the standard is already under revision hence decided to **reaffirm and revise** the standard and requested Shri Debasish Pal, Alex Stewart and Dr M Vasudevan, IGCAR to review IS 1468: 2000 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Comments/recommendations were received from Dr M Vasudevan, on IS 1468: 2000, which have been incorporated into the draft and P-circulated among the committee members via email dt 24-04-2024 for their comments and inputs.  The P-draft is placed below:    **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then circulate the document as Wide Circulation for 1 month.  Comments received from IGCAR were incorporated. The final draft is placed below**.**    The queries may be resolved by the committee before wide circulating the draft.  **3rd meeting of MTD 05**  The committee after deliberation requested IGCAR to provide clarifications within one month.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | Meeting to resolve the queries still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 1469: 1993 Ferromolybdenum - Specification (Fourth Revision) | **1st meeting of MTD 05**  The committee after detailed deliberation decided to **reaffirm and revise** the standard and requested Shri Ashish Goyal, Jindal Stainless steel to review IS 1469: 1993 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Mails has been sent to Shri Ashish Goyal, Jindal Stainless steel to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation requested member secretary to incorporate the comments sent by M/s Jindal Stainless Limited and then to circulate P-draft among the committee members for 2 Weeks’ time for their views/comments. If no comments were received, then wide circulate the document for 1 month.  Comments received from JSL and IFAPA were incorporated. The working draft is placed below    A working group can be formed to revise this standard  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group for the revision of the standard with the following members –   1. Shri Suyash Trivedi from Jindal Stainless Limited 2. Shri Tanmaya Kumar Pattnaik from IFAPA   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 14 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | The working group meeting was held on 20 November 2024.  The panel meeting was held on 17 December 2024.  Updated Draft document of IS 1469 is attached below :    **The committee may deliberate and decide.** |
|  | IS 2021: 1993 Manganese metal - Specification (Second Revision) | **1st meeting of MTD 05**  The committee after detailed deliberation decided to **reaffirm and revise** the standard and requested Shri Bhargav Dhavala, Tata Steel to review IS 2021: 1993 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Comments/recommendations were received from Shri Bhargav Dhavala, on IS 2021: 1993, which have been incorporated into the draft and P-circulated among the committee members via email dt 24-04-2024 for their comments and inputs.  The P-draft is placed below:    **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then wide circulate the document for 1 month.  Comments received from IGCAR and TATA steel were incorporated. The final draft is placed below**.**    The queries may be resolved by the committee before wide circulating the draft  **3rd meeting of MTD 05**  The committee after deliberation decided to form a working group to resolve the comments and provide the final working draft for the revision of the standard with the following members –   1. IGCAR 2. Dr. A. K. Mukherjee from Tata Steel 3. Dr Vibhuti Roshan from NMDC   The committee requested the Working group to provide the final draft within one month.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month | The working group meeting still needs to be conducted.  **The committee may deliberate and decide.** |
|  | IS 2022: 1997 Calcium silicon - Specification (Third Revision) | **1st meeting of MTD 05**  The committee after detailed deliberation decided to **reaffirm and revise** the standard and requested Shri Debasish Pal, Alex Stewart to review IS 2022: 1997 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Mails has been sent to Shri Debasish Pal, Alex Stewart to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation again requested Shri Debasish Pal, Alex Stewart to review IS 2022:1997 and provide comments/recommendations (if any) along with justification within 3 weeks. Once the recommendations are received, the same will be circulated among committee members for their review.  Comment received from Mr Debashish pal via email dated 18 September is placed below:    A working group can be formed to revise this standard  **3rd meeting of MTD 05**  The committee decided to revise the standards notified for QCO on priority and this standard will be taken up in the next meeting. | This standard needs to be discussed in this meeting.  **The committee may deliberate and decide.** |
|  | IS 2023: 1993 Chromium metal - Specification (Second Revision) | **1st meeting of MTD 05**  The committee after detailed deliberation decided to **reaffirm and revise** the standard and requested Shri Bikas Kumar Maji, BARC to review IS 2023: 1993 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  **2nd meeting of MTD 05**  The committee requested the Member Secretary to circulate the TOR within the committee for a period of 2 weeks for comments and inputs from the committee members and if no comments were received then finalize the TOR and proceed for further action. | **Please refer item No. 12.2.** |
|  | IS 2024: 1988 Specification for ferrosilicon chromium (Third Revision) | As a part of Action Research Project, BIS officer Vipul Bohara had reviewed IS 2024 and observation was placed below.    Member Secretary has circulated the ARP on 16/12/2022.  Among the committee members for comments/ recommendation on adoption of ISO 5449  **1st meeting of MTD 05**  The committee after detailed deliberation requested member secretary to review once again ISO 5449: 1980 and give recommendation/ comments on adoption.  The committee after detailed deliberation decided to **reaffirm** the standard.  After reviewing it was observed that the grades/sizes in ISO 5449 have a broader range than IS 2024. However, recommended chemical composition of residual elements is not specified in ISO 5449 and the chemical composition of specified elements is also not mandatory and can be mutually between both the parties.  **2nd meeting of MTD 05**  The committee advised the member secretary to prepare a working draft and circulate within the committee for comments for 1 month.  A working group can be formed to revise this standard as additional grades in the market has to be identified and incorporated.  **3rd meeting of MTD 05**  The committee decided to revise the standards notified for QCO on priority and this standard will be taken up in the next meeting. | This standard needs to be discussed in this meeting.  **The committee may deliberate and decide.** |
|  | IS 3014: 1993 Ferroniobium - Specification (Second Revision) | **1st meeting of MTD 05**  The committee after detailed deliberation decided to **reaffirm and revise** the standard and requested Shri Debasish Pal, Alex Stewart to review IS 3014: 1993 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  Mails has been sent to Shri Debasish Pal, Alex Stewart to review the standard and provide their recommendations on 20-03-2024 and 18-04-2024. No reply is received.  **2nd meeting of MTD 05**  The committee after detailed deliberation again requested Shri Debasish Pal, Alex Stewart to review IS 3014: 1993 and provide comments/recommendations (if any) along with justification within 3 weeks. Once the recommendations are received, the same will be circulated among committee members for their review.  Comment received from Mr Debashish pal via email dated 18 September is placed below:    A working group can be formed to revise this standard**.**  **3rd meeting of MTD 05**  The committee decided to revise the standards notified for QCO on priority and this standard will be taken up in the next meeting. | This standard needs to be discussed in this meeting.  **The committee may deliberate and decide.** |
|  | IS 1171: 2011 Ferromanganese - Specification (Fifth Revision) | **1st meeting of MTD 05**  The committee after discussion and deliberation formulated a panel with the following members:   1. Shri Bhargav Dhavala, Tata steel (convenor) 2. Shri Debasish Pal, Alex Stewart 3. Shri Ashish Goyal, Jindal stainless steel 4. Shri Tanmay Kumar Patnaik, IFAPA   The committee requested panel to review IS 1171: 2011 and IS 1470: 2013 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  The panel meeting to revise IS 1171: 2011 and IS 1470: 2013 was held on 3rd April 2024. The minutes of the panel meeting are attached below.    The draft documents were P-circulated for 21 days via BIS Portal dated 23rd April 2024 are placed below.      **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then circulate the document as Wide Circulation for 1 month.  Comments received from IFAPA, SAIL RDCIS were incorporated. The final draft is placed below      Manak Manthan comments    The queries may be resolved by the committee before wide circulating the draft.  **3rd meeting of MTD 05**  The committee after deliberation decided to hold a meeting in working group to resolve the comments received on IS 1171 and IS 1470.  The committee agreed to convert existing panel to a working group without any change in composition.  The committee requested the Working group to provide the final draft within 15 days.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month | The working group meeting was held on 17 October 2024.  Updated Draft document of IS 1171 is attached below :    **The committee may deliberate and decide.** |
|  | IS 1470 : 2013 Silicomanganese - Specification (Fourth Revision) | **1st meeting of MTD 05**  The committee after discussion and deliberation formulated a panel with the following members:   1. Shri Bhargav Dhavala, Tata steel (convenor) 2. Shri Debasish Pal, Alex Stewart 3. Shri Ashish Goyal, Jindal stainless steel 4. Shri Tanmay Kumar Patnaik, IFAPA   The committee requested panel to review IS 1171: 2011 and IS 1470: 2013 and provide comments/recommendations (if any) along with justification within 2 months. Once the recommendations are received, the same will be circulated among committee members for their review.  The panel meeting to revise IS 1171: 2011 and IS 1470: 2013 was held on 3rd April 2024. The minutes of the panel meeting are attached below.    The draft documents were P-circulated for 21 days via BIS Portal dated 23rd April 2024 are placed below.      **2nd meeting of MTD 05**  The committee after detailed deliberation decided to continue P-circulation of the document among the committee members for their recommendations/comments for 2 weeks more. If no comments were received comments received are editorial in nature, then circulate the document as Wide Circulation for 1 month  Comments received from IFAPA, SAIL RDCIS, IGCAR, KKBO Manak manthan were incorporated. The final draft is placed below    The queries may be resolved by the committee before wide circulating the draft.  **3rd meeting of MTD 05**  The committee after deliberation decided to hold a meeting in working group to resolve the comments received on IS 1171 and IS 1470.  The committee agreed to convert existing panel to a working group without any change in composition.  The committee requested the Working group to provide the final draft within 15 days.  The final draft provided by the working group will be circulated to all the committee members for 7 days for their comments and if no comments were received/ comments received are editorial in nature, the draft will be wide circulated for 1 month. | The working group meeting was held on 17 October 2024.  Updated Draft document of IS 1470 is attached below :    **The committee may deliberate and decide.** |
|  | Nickel Pig Iron | The following proposal has been received on the subject Nickel Pig Iron and has been circulated to all the committee members via BIS portal on 03-05-2024. No comments received.    **2nd meeting of MTD 05**  The committee in its 2nd meeting after detailed deliberation, created a panel (MTD 05:P3) for further discussion regarding formulation of the standard on Nickel Pig Iron with the following members:   1. Steel Authority of India Limited (SAIL) - Salem Steel Plant, Salem (convenor) 2. Jindal Stainless Limited, New Delhi 3. CSIR, NML 4. Steel Authority of India Limited (SAIL), Durgapur Steel Plant, Durgapur 5. Nuclear Fuel Complex, Hyderabad 6. Alex Stewart International India Private Limited, Visakhapatnam 7. National Institute of Technology, Rourkela   Reminder emails were sent to Shri Ashish Goyal and Shri Suyash on 14th August 2024 seeking date for panel meeting and, but no reply has been received to date.  Because they didn't provide the data & and reply regarding panel meeting, the panel meeting hasn't been scheduled.  **3rd meeting of MTD 05**  The committee requested JSL to schedule a meeting and to provide data available on imports of NPI, last test reports etc.  The committee agreed to convert existing panel to a working group without any change in composition. | The working group meeting was held on 28 October 2024.  Minutes of the meeting is placed below :    After the working group meeting draft amendment of IS 4409 is formulated and placed below :    **The committee may deliberate and decide.** |

**[ANNEXURE-II](#Aneex2)**

**[(Item 4.3)](#Aneex2)**

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| Sl. No. | Name of the Organisation | Represented By | Meeting | | | Total |
| **1st** | **2nd** | **3rd** |
|  | Indira Gandhi Centre for Atomic Research (IGCAR) | Dr M. Vasudevan (*Chairman*) | P | P | P | 3/3 |
|  | Arcelor Mittal and Nippon Steel India Ltd. (AM/NS India) | Principal: Dr Atanu Ranjan Ojha  Alternate: Ch V S Nd Hariprasad | P | A | A | 1/3 |
|  | Alex Stewart International (India) Private Limited, Visakhapatnam | Principal: Shri Debasish Pal  Alternate: Shri S.Balaji | P | P | P | 3/3 |
|  | Bhabha Atomic Research Centre, Mumbai | Principal: Dr. Bikas Chandra Maji | P | A | P | 2/3 |
|  | CSIR-Institute of Minerals & Materials Technology (IMMT), Bhubaneswar | Principal: Dr. Swagat S. Rath  Alternate: Dr S. P. Das | P | P | A | 1/3 |
|  | CSIR -National Metallurgical Laboratory, Jamshedpur | Principal: Dr. Sanjay Agarwal  Alternate: Dr. Dayanand Paswan | P | P | P | 3/3 |
|  | Elkem South Asia Pvt Ltd., Nagpur | Principal: Shri Kumar Kislay  Alternate: Shri Manish Kumar | P | P | A | 1/3 |
|  | Indian Ferro Alloy Producers Association, Mumbai | Principal: Shri Anoop Gutgutia  Alternate: Shri N. Suresh Chandar Rao | P | P | P | 3/3 |
|  | Indian Institute of Technology, Madras | Principal: Prof. K. G. Pradeep  Alternate: Ms. E Hemaprabha | New co-option | | P | 1/1 |
|  | Inspectorate Griffith India Pvt Ltd, Bhubaneswar | Principal: Shri Sudip Kumar Chattopadhyay  Alternate: Smt Nalanda Sen | P | P | A | 2/3 |
|  | Indira Gandhi Centre for Atomic Research, kalpakkam | Principal: Dr. G.V. Prasadreddy  Alternate: Dr. J. Christopher  Young Professional: Mr. B. Aashranth | New Nominations | P | P | 2/2 |
|  | Jindal Stainless Limited (New Delhi) | Principal: Shri Ashish Goyal  Alternate: Shri Suyash Trivedi  Alternate: Shri Abhishek Diwedi | P | P | P | 3/3 |
|  | JSW Steel Ltd (Karnataka) | Principal: Shri C.R.Pramod Kumar  Alternate: Shri N Sairam Krishna | P | P | A | 2/3 |
|  | Midhani, Hyderabad | Principal: Shri Dinesh Gajanan Ramteke  Alternate: Shri Phani Kishore | A | P | A | 1/3 |
|  | MOIL, Nagpur | Principal: Shri Rajesh Bhattacharya  Alternate: Smt Sneha Tiwari | P | P | A | 2/3 |
|  | NIT, Rourkela | Principal: Prof. Archana Mallik  Alternate: Prof. Soumitra Kumar Dinda | New co-option | P | A | 1/2 |
|  | National Institute of Technology, Tiruchirapalli | Principal: Prof SankaraRaman Sankaranarayanan | New co-option | | P | 1/1 |
|  | National Mineral Development Corporation, Hyderabad | Principal: Shri Vibhuti Roshan | New co-option | | P | 1/1 |
|  | Nuclear Fuel Complex, Hyderabad | Principal: Shri Kumar Vaibhaw  Alternate: Smt. Vaishnavi R Talmale | New co-option | P | P | 2/2 |
|  | Steel Authority of India Limited (SAIL), Research & Development Centre for Iron & Steel, Ranchi | Principal: Shri Rajeev Kumar Singh  Alternate: Shri Vikash Kumar | New co-option | | P | 1/1 |
|  | Steel Authority of India Limited (SAIL) - Salem Steel Plant, Salem | Principal: Shri A Kannan Alternate: Shri C Jayakumar | New co-option | P | P | 2/2 |
|  | SAIL - Durgapur | Principal: Shri Debashis Ranjan Das  Alternate: Shri Shib Sankar Roy, | A | P | A | 1/3 |
|  | Tata Steel Limited (Jamshedpur) | Principal: Dr. A.K.Mukherjee  Alternate: Mr. Bhargav Dhavala | P | P | P | 3/3 |

**[ANNEXURE - III](#Aneex3)**

**[(Item 5.1)](#Aneex3)**

**Scope:** *Standardization in the field of Ferroalloys used for iron and steel making*

**Liaison:** ISO TC-132 (P): Ferroalloys

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Published Standards | | | | | |
| **SI. No.** | **IS No.** | **TITLE** | **Reaffirm M-Y** | **No. of Amds** | **Eqv.** |
| 1 | IS 1110 : 2023 | Ferrosilicon - Specification (Fifth Revision) |  | - | Not Equivalent |
| ISO 5445:1980 |
| 2 | IS 1170 : 1992 | Ferrochromium - Specification (Second Revision) | March, 2024 | 1 | Indigenous |
| Reviewed In : 2024 |
| 3 | IS 1171 : 2011 | Ferromanganese - Specification (Fifth Revision) | March, 2021 | - | Indigenous |
| Reviewed In : 2021 |
| 4 | IS 12908 : 1990 | Ferroaluminium - Specification | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 5 | IS 12908 : 1990 | Ferroaluminium - Specification (Bi-lingual) | March, 2024 | - |  |
| Reviewed In : 2024 |
| 6 | IS 13054 : 1991 | Quartzite/quartz for the production of ferroalloys - Specification | March, 2024 | 1 | Indigenous |
| Reviewed In : 2024 |
| 7 | IS 13164 : 1991 | Ferrosilicomagnesium - Specification | March, 2021 | - | Indigenous |
| Reviewed In : 2021 |
| 8 | IS 1466 : 1985 | Specification for ferrovanadium (Third Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 9 | IS 1467 : 1993 | Ferrotungsten - Specification (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 10 | IS 1468 : 2000 | Ferrotitanium - Specification (Fourth Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 11 | IS 1469 : 1993 | Ferromolybdenum - Specification (Fourth Revision) | March, 2024 | 1 | Indigenous |
| Reviewed In : 2024 |
| 12 | IS 1470 : 2013 | Silicomanganese - Specification (Fourth Revision) | September, 2023 | - | Indigenous |
| Reviewed In : 2023 |
| 13 | IS 1471 : 1988 | Specification for ferrophosphorus (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 14 | IS 1472 : 1977 | Methods for sampling ferro-alloys for determination of chemical composition (First Revision) | January, 2022 | 2 | Not Equivalent |
| Reviewed In : 2022 ISO 3713:1987 |
| 15 | IS 15765 : 2008 | Method of sampling ferro alloys for sieve analysis and size determination | September, 2023 | - | Indigenous |
| Reviewed In : 2023 |
| 16 | IS 2021 : 1993 | Manganese metal - Specification (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 17 | IS 2022 : 1997 | Calcium silicon - Specification (Third Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 18 | IS 2023 : 1993 | Chromium metal - Specification (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 19 | IS 2024 : 1988 | Specification for ferrosilicochromium (Third Revision) | March, 2024 | 1 | Indigenous |
| Reviewed In : 2024 |
| 20 | IS 2085 : 1962 | Code for designation of ferro - alloys | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 21 | IS 2301 : 2000 | Metallic silicon - Specification (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 22 | IS 2391 : 2024 | Foundry Nickel - Specification (Second Revision) |  | - | Indigenous |
| 23 | IS 3011 : 1973 | Specification for ferrosilicozirconium (First Revision) | March, 2021 | 1 | Indigenous |
| Reviewed In : 2021 |
| 24 | IS 3012 : 2023 | Chrome Manganese - Specification (Second Revision) |  | - | Indigenous |
| 25 | IS 3013 : 1991 | Ferroboron - Specification (Third Revision) | March, 2021 | - | Indigenous |
| Reviewed In : 2021 |
| 26 | IS 3014 : 1993 | Ferroniobium - Specification (Second Revision) | March, 2024 | - | Indigenous |
| Reviewed In : 2024 |
| 27 | IS 4182 : 1988 | Specification for misch metal (First Revision) | March, 2020 | - | Indigenous |
| Reviewed In : 2020 |
| 28 | IS 4409 : 2023 | Ferronickel - Specification (Second Revision) |  | - | Indigenous |
| 29 | IS 5634 : 1987 | Specification for molybdenum oxide (Technical) (First Revision) | March, 2021 | 1 | Indigenous |
| Reviewed In : 2021 |
| 30 | IS 7148 : 2024 | Ferro-Alloys for Welding Industry- Specification (Second Revision) |  | - | Indigenous |
| 31 | IS 7965 : 1976 | Specification for niobium (Columbium) | March, 2021 | - | Indigenous |
| Reviewed In : 2021 |

**[ANNEXURE –IV](#Aneex4)**

**[(Item 7.2.1)](#Aneex4)**

The following Indian Standards of the committee are due for review/reaffirmation for financial year 2024-25:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | IS No. | IS Title | Decision of the committee in its previous meetings | Action Taken |
|  | IS 4182 : 1988 | Specification for misch metal (First Revision) | The committee after deliberation and discussion decided to revise the standard without any technical changes and to bring the standard in the latest style and format of the Indian Standards.  A working group needs to be formulated for the revision of this standard.  The committee after deliberation decided to form a working group for the revision of the standard with the following members -   1. Dr Vibhuti Roshan from NMDC 2. Shri Vamshi Krishna Palleti from Geological Survey of India | The working group meeting was held on 8 December 2024.  Updated Draft document of IS 4182 is attached below :    **The committee may deliberate and decide.** |

**[ANNEXURE - V](#_Item_7._REVIEW" \o "7.3.1)**

**[(Item 7.3.1)](#_Item_7._REVIEW" \o "7.3.1)**

The following Indian Standards were published prior to 2000 are due for review:

|  |  |  |
| --- | --- | --- |
| Sl. No. | IS Number | IS Title |
|  | IS 1170 : 1992 | Ferrochromium - Specification (Second Revision) |
|  | IS 12908 : 1990 | Ferroaluminium - Specification |
|  | IS 13054 : 1991 | Quartzite/quartz for the production of ferroalloys - Specification |
|  | IS 13164 : 1991 | Ferrosilicomagnesium - Specification |
|  | IS 1466 : 1985 | Specification for ferrovanadium (Third Revision) |
|  | IS 1467 : 1993 | Ferrotungsten - Specification (Second Revision) |
|  | IS 1468 : 2000 | Ferrotitanium - Specification (Fourth Revision) |
|  | IS 1469 : 1993 | Ferromolybdenum - Specification (Fourth Revision) |
|  | IS 1471 : 1988 | Specification for ferrophosphorus (Second Revision) |
|  | IS 1472 : 1977 / ISO 3713:1987 | Methods of sampling ferro-alloys for determination of chemical composition (First Revision) |
|  | IS 2021 : 1993 | Manganese metal - Specification (Second Revision) |
|  | IS 2022 : 1997 | Calcium silicon - Specification (Third Revision) |
|  | IS 2023 : 1993 | Chromium metal - Specification (Second Revision) |
|  | IS 2024 : 1988 | Specification for ferrosilicochromium (Third Revision) |
|  | IS 2085 : 1962 | Code for designation of ferro - Alloys |
|  | IS 2301 : 2000 | Metallic silicon - Specification (Second Revision) |
|  | IS 3011 : 1973 | Specification for ferrosilicozirconium (First Revision) |
|  | IS 3013 : 1991 | Ferroboron - Specification (Third Revision) |
|  | IS 3014 : 1993 | Ferroniobium - Specification (Second Revision) |
|  | IS 4182 : 1988 | Specification for misch metal (First Revision) |
|  | IS 5634 : 1987 | Molybdenum oxide (Technical) (First Revision) |
|  | IS 7965 : 1976 | Specification for niobium (Columbium) |