



For BIS Use Only



**भारतीय मानक ब्यूरो**  
**BUREAU OF INDIAN STANDARDS**

**AGENDA**

Name of the Committee	No. of Meeting	Date & Day	Time	Hybrid Meeting
<b>Industrial Fuel Fired Furnaces Sectional Committee, MTD 26</b>	<b>23<sup>rd</sup></b>	<b>13-08-2024 Tuesday</b>	<b>10 : 30 AM</b>	<b>Venue:</b> ENCON Thermal Engineers Private Limited  (53 KM Stone, Delhi - Mathura Road, Vill. Baghola, Distt. Palwal - 121 102 Haryana (India)) <b>Link:</b> <a href="https://bismanak.webex.com/bismanak/j.php?MTID=maa65f7ebf2a052c931accfe5ea3eec58">https://bismanak.webex.com/bismanak/j.php?MTID=maa65f7ebf2a052c931accfe5ea3eec58</a>  <b>Meeting Id :</b> 2510 732 3196 <b>Password :</b> mtd26 <b>Contact :</b> <a href="mailto:mtd26@bis.gov.in">mtd26@bis.gov.in</a>

**Chairman:** Shri Ajay Kumar

**Member Secretary:** Smt. Challakonda Vidisha

**Item 0 WELCOME AND OPENING REMARKS**

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

The Minutes of 22<sup>nd</sup> meeting of Industrial Fuel Fired Furnaces Sectional Committee, MTD 26 held on 15<sup>th</sup> March 2024 (Friday) through virtual mode, were circulated to the members vide email dated 28-03-2024.

A comment has been received from Shri Manish Kumar from SAIL, Ranchi to modify item 17(2) for more clarity and the revised minutes, incorporating these comments was circulated on 08-04-2024.

**No other comments have been received**

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

**Item 2 SCOPE AND COMPOSITION OF COMMITTEE**

**2.1 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.



It is to inform the committee that the term of Shri Ajay Kumar, in personal capacity (chairman) is going to end in December 2024.

**The committee may note and decide.**

The following inactive members are identified who:

1. Neither attended the last two committee meetings nor submitted any justification for their absence.
2. Did not respond to our emails requesting fresh nominations.
3. Did not provide any inputs on the P-drafts/WC-drafts/ISO ballots/Clarifications.

Despite our efforts to engage these organizations and solicit their participation, no response has been received from them. Pursuant to the decisions made during our last meeting and in accordance with the instructions outlined, the committee may decide the memberships of these organizations.

Sl No.	Organization	Principal member	Alternate member	Other member
1	Indian Seamless Metal Tubes Limited, Jaipur	Shri Balram Agarwal	Shri Bhagwan Paralkar	-
2	Rail Wheel Factory, Bengaluru	Shri Naresh Kumar Barnawal	Shri D.K. Gaur	Shri Ashwani Kumar D
3	CSIR - Central Glass and Ceramic Research Institute, Kolkata	-	Dr Sitendu Mandal	-
4	Durgapur Steel Plant, Sail Durgapur	Shri Kesri	-	-
5	SAIL, Bokaro Steel Plant, Bokaro	Shri Prabir Kumar Bhuin	Smt. Lalita Biruli	-
6	Tata Steel Limited, Jamshedpur	Dr. S. Sikdar	-	-
7	Indian Institute of Technology Kharagpur, Kharagpur	Dr. Sukanta Kumar Dash	Dr. Mahendra Reddy Vanteru	-
8	In Personal capacity	Shri Sourav Ghosal		

**2.2 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.

**2.3 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 number of memberships 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 organisation) with widely acknowledged domain area expertise and experience on the subjects covered by the scope of the Sectional Committee. Whenever an organisation viz. Ministry, Industry Association or Research and



Academic Institutions is included in the Sectional Committee, it should be ensured that the person representing the organisation is clearly specified and has the desired standing.

**2.4 Attendance of members in the committee** - If a member fails to attend a meeting of the Sectional Committee, communication should be sent to him by the Head of the Department concerned seeking his cooperation in the functioning of the Committee. If the member concerned fails to attend the Sectional Committee meeting even after the communication was sent, his/her membership shall be liable to be terminated. The Sectional Committee should review all these cases and the cases of absenteeism of serious nature and make suitable recommendations for their replacement to the Divisional Council.

**2.5** The present composition of sectional committee and their participation in last 3 meetings were given at

The committee may please deliberate and decide.

#### ANNEXURE 1 1

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:



Office order  
BIS-2.pdf

- a) 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.



- b) 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.
- c) 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.
- d) The quorum for the TC meeting shall be 10 or one third of the members, whichever is higher.
- e) 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 20<sup>th</sup> September 2023 vide mail dated 13<sup>th</sup> September and 10<sup>th</sup> October 2023 and again on 26<sup>th</sup> March 2024.



Instructions.pdf



Declaration.docx

## 2.6 The committee decided to co-opt the following organization in the committee.


SI No.	Organization	Remark	Action Taken
1.	IIT Delhi	The committee requested Sh. Vishve Bandhu Mahendra to provide the contact details of the nominating authority within the organization.	A co-option request was sent to IIT Delhi, and Prof Krishna Kant Aggarwal has been nominated and has been invited to attend the meeting. IIT Delhi will be co-opted once the complete nomination proforma along with details of principal member has been submitted.

**The Committee may please note.**



### Item 3 ACTION TAKEN REPORT



Sl No.	Subject	Decision of the committee during previous meetings	Action Taken
1.	Revision of <b>IS 12392</b> : <b>1988</b> Code of practice for design manufacture and testing of metallic Recuperators	<p style="text-align: center;"><b>18th Meeting</b></p> <p>The committee after deliberation decided to request Shri Alok Basu of Eastern equipment and Engineers Pvt Ltd to prepare working draft for revision of the Indian Standard and submit it to BIS within one month.</p> <p>Reminder was sent over email 09/08/2021,14/10/2021,26/10/2021 ,15/11/2021.</p> <p style="text-align: center;"><b>19th Meeting</b></p> <p>The committee requested M/s Eastern Equipment and Engineers Pvt Ltd to submit the Working draft within one month to BIS.</p> <p>Working draft received and placed below :</p> <p style="text-align: center;"> Working draft IS12392 received fro</p> <p>The committee is requested to form a panel on the subject to prepare a draft standard.</p> <p style="text-align: center;"><b>20th Meeting</b></p> <p>The committee decided to form a new panel (<b>MTD26:P02</b>) for the drafting of this standard.</p> <p>Panel Composition:</p> <ul style="list-style-type: none"><li>a) <b>M/s SAIL CET</b> - Shri Manish kumar</li><li>b) <b>M/s ENCON Thermal engineers pvt ltd</b> - Shri Vishve Bandhu Mahendra</li><li>c) <b>M/s Eastern equipment and Engineers Pvt Ltd</b> - Shri Alok Basu (convener)</li><li>d) <b>M/s Wesman Engg Company Ltd</b></li><li>e) <b>M/s Petroleum Conservation Research Association (PCRA)</b></li></ul>	<p>The document <b>MTD/26/25871</b> was P circulated for the period of 14 days and no comments were received.</p> <p>Hence, the document <b>MTD/26/25871</b> is sent for wide circulation for 30 days on 02-08-2024.</p> <p style="text-align: center;"><b>The committee may please deliberate and decide.</b></p>

The panel is requested to finalise the working draft received on 'Code of practice for design manufacture and testing of metallic Recuperators' and submit the same to BIS within 45 days.

The panel meeting was held on 16-12-2022. We have received following comments on the working draft document from Mr. Alok Basu, M/s Eastern Equipment & Engineers Pvt Ltd which is highlighted in yellow:



working draft  
12392 with commen

### **21<sup>st</sup> Meeting**

The committee after deliberation and requested Member Secretary to seek reference and missing data which is mentioned in draft document by mail from Mr Alok Basu, M/s Eastern Equipment & Engineers Pvt Ltd.

After receiving the modified draft from Mr. Alok Basu, the document shall be sent for Wide Circulation for a period of 2 months.


Further, the Committee also decided that if no comments received on WC or comments received are in editorial nature same to process for printing on approval of chairman MTD 26.

The modified draft from Mr. Alok Basu is still awaited and the reminder was sent via mail dated 28<sup>th</sup> November 2023 and 29<sup>th</sup> February 2024.

Reply awaited.

The modified draft from Mr. Alok Basu was received after the agenda had been circulated and is placed below.



		 WD_IS 12392.docx  <b>22<sup>nd</sup> Meeting</b>  The committee after detailed deliberation felt that some items such as pie-charts are informative but not required to be mentioned in the standard and advised the member secretary to modify the draft according to BIS practices and circulate it within the committee as a P-draft for 2 weeks. If no comments/recommendations were received, document may be wide circulated for a period of 30 days.	
2.	Revision of <b>IS 17082 : 2019</b> MTD 26 (23691) Guidelines for Design & Construction of Continuous pusher type coal/oil/gas fired reheating furnaces	<b>18th Meeting</b> The committee decided to form a panel to finalize the draft. The panel consists of : <ul style="list-style-type: none"><li>a) <b>SAIL CET (convenor)</b>- Shri Manish kumar</li><li>b) <b>ENCON Thermal engineers pvt ltd</b> - Shri Vishve Bandhu Mahendra</li><li>c) <b>Eastern equipment and Engineers Pvt Ltd</b> - Shri Alok Basu</li><li>d) <b>Wesman Engg Company Ltd</b> - Shri Gautam Samanta</li></ul> Working Draft is placed at <u>ANNEXURE 3</u> Member Secretary BIS will organise online meeting of the panel. Timeline was set to <b>45 days</b> . The panel MTD26:P01 conducted 1 <sup>st</sup> meeting on 25/08/2021 and second meeting on 1 <sup>st</sup> Dec 2021. Panel convener: Shri Manish Kumar of M/s SAIL CET Working draft provided by Panel is attached below:	The document <b>MTD/26/23691</b> is finalized and sent for printing.  <b>The Committee may please note.</b>



Final WD-  
GUIDELINES FOR DE

**The committee may deliberate and decide.**

#### **19th Meeting**

The committee reviewed the draft and agreed with the recommendation of the panel to drop the doc MTD 26 (10620) and consider the working draft present at [Annex I](#) for revision of IS 17082 which was already circulated through email.

The committee decided to send the draft for **P-circulation of 30 days**.

The document is sent for P circulation of 30 days on 06/07/2022.



Final WD-  
GUIDELINES FOR DE

#### **20<sup>th</sup> Meeting**

The committee after deliberation requested the panel (MTD26:P01) to include a clause for compliance to regulatory requirements. In addition to this a line may be added for addressing the relevant Sustainable Development Goal.

The panel was requested to share the final P-draft within 15 days. The draft will be circulated with the committee members for their review and comments for the period of 10 days. In case, no comments are received, the draft shall be sent for wide circulation of 1 month.

The panel is not submitted working draft document incorporating clause for compliance to regulatory requirements and addressing the relevant Sustainable Development Goal.

#### **21<sup>st</sup> Meeting**






		<p>The committee after deliberation and discussion decided that there are no relevant SDG goals and compliance to regulatory requirements applicable on this standard and decided to circulate the document in WC for 60 days.</p> <p>Further, the Committee also decided that if no comments received on WC or comments received are in editorial nature same to process for printing on approval of chairman MTD 26.</p> <p>The document MTD/26/23691 is sent for wide circulation for 60 days on 06-03-2024.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee noted the information and decided to finalize the wide circulated document and send it for printing if no comments were received/comments received were editorial in nature.</p>	
<p>3.</p>	<p><b>IS 14492 : 1997</b> Drying, pre-heating and commissioning of furnace installations, steam boilers, industrial kilns and chimneys - Recommendations</p>	<p style="text-align: center;"><b>21<sup>st</sup> Meeting</b></p> <p>This standard to be reaffirmed and revised to bring the standard in the latest style and format of the Indian Standards.</p> <p>The Member Secretary requested Shri Manish Kumar to review the draft of IS 14492 via email dated 20th November 2023. No comments have been received.</p> <p>The draft was P- circulated on 24<sup>th</sup> November 2023 for the period of 21 days and no comments were received.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee after detailed deliberation decided to send the draft document for wide circulation for a period of 30 days and then finalize the document and send it for printing if no comments were</p>	<p>The document <b>MTD/26/24182</b> was sent for Wide Circulation for a period of 30 days from 31-05-2024 to 30-06-2024.</p> <p>During Wide circulation period of the document a comment has been received from <b>Shri Anup Chandra</b> -</p> <p>“Some Guidelines for Location of Chimney for Different Type of Metallurgical Furnaces May Be Included in The Standard. This Particularly for Electrically Heated Systems”</p> <p><b>The Committee may please deliberate and decide.</b></p>




		received/comments received were editorial in nature.	
4.	<b>IS 12553 : 1988</b> Code of practice for design, construction, installation and operation of industrial gas/oil burning equipment	<p style="text-align: center;"><b>21<sup>st</sup> Meeting</b></p> <p>This standard to be reaffirmed and revised to bring the standard in the latest style and format of the Indian Standards.</p> <p>The draft was P- circulated on 20<sup>th</sup> November 2023 for the period of 21 days and no comments were received.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee after detailed deliberation decided to send the draft document for wide circulation for a period of 30 days and then finalize the document and send it for printing if no comments were received/comments received were editorial in nature.</p>	<p>It was observed that the reference Australian standard AS 1375: 1979 has revised in 1985, 2013 and 2023. Major changes have been done during these revisions.</p> <p>Though it was decided to revise IS 12553 to bring the standard in the latest style and format of the Indian Standards, it is to bring to the notice of the committee regarding the major changes made in latest version of AS 1375. The committee may decide if the standard has to be revised as per the reference standard or not.</p> <p style="text-align: right;"><b>The Committee may please deliberate and decide.</b></p>
5.	<b>ISO 13577-2:2014</b> Industrial furnaces and associated processing equipment -- Safety - Part 2: Combustion and fuel handling systems	<p style="text-align: center;"><b>18<sup>th</sup> Meeting</b></p> <p>The committee requested Shri Rajib Kumar Paul of M/s National Institute of Secondary Steel Technology to review the document and give recommendation on whether the ISO standard can be adopted.</p> <p style="text-align: center;"><b>19<sup>th</sup> meeting</b></p> <p>The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month</p> <p style="text-align: center;"><b>20<sup>th</sup> meeting</b></p> <p>The committee decided to send the document for printing since no comments were received for the wide circulation draft</p> <p style="text-align: center;"><b>21<sup>st</sup> Meeting</b></p>	<p>As decided, the document will be sent for Wide Circulation for the period of 30 days as decided by the committee in 22<sup>nd</sup> committee meeting.</p> <p style="text-align: right;"><b>The committee may please note.</b></p>



		<p>The Committee decided to send the document for printing.</p> <p>The document has been published under dual numbering IS 17984 (Part 2): 2024/ISO 13577-2:2014.</p> <p>Also, ISO 13577-2: 2014 has been revised by ISO 13577-2:2023.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee after detailed deliberation decided to revise IS 17984 (Part 2): 2024/ISO 13577-2:2014 by adopting latest version ISO 13577-2: 2023 and decided to send the document for wide circulation for a period of 30 days and then to finalize the document and send it for printing if no comments were received/comments received were editorial in nature.</p>	
6.	<b>ISO 13577-3:2016</b> Industrial furnaces and associated processing equipment -- Safety - Part 3: Generation and use of protective and reactive atmosphere gases	<p style="text-align: center;"><b>18<sup>th</sup> Meeting</b></p> <p>The committee requested Shri Rajib Kumar Paul of M/s National Institute of Secondary Steel Technology to review the document and give recommendation on whether the ISO standard can be adopted.</p> <p style="text-align: center;"><b>19<sup>th</sup> meeting</b></p> <p>The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month.</p> <p style="text-align: center;"><b>20<sup>th</sup> meeting</b></p> <p>The document was wide circulated for one month and no comments received during the period. However, during the meeting M/s IPSEN – Shri Abhijeet Banerjee requested 1-week time to study the documents before sending it for printing.</p> <p>The committee agreed to the request of Shri Abhijeet Banerjee and advised him to submit the comments within 1 week. In</p>	<p>The document was printed on 04-06-2024.</p> <p style="text-align: center;"> IS 17984 Part 3 2024.pdf</p> <p><b>The committee may note.</b></p>



IS 17984 pa  
4\_2024.pdt

		<p>case of absence of any comments, member secretary was advised to proceed the documents for printing</p> <p style="text-align: center;"><b>21<sup>st</sup> Meeting</b></p> <p>The committee after detailed deliberation decided to send the comments received from Mr. Abhijeet Banerjee during WC of document MTD26 (19269) to ISO for ISO 13577-3: 2016, as the standard is being adopted under dual numbering.</p> <p>The Committee also decided to send the document MTD26 (19269) for printing.</p> <p>The document is currently under publication stage and is sent for printing on 09-02-2024.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee noted the information.</p>	
<p>7.</p>	<p><b>ISO 13577-4:2022</b> Industrial furnaces and associated processing equipment – Safety-Part 4: Protective systems</p>	<p style="text-align: center;"><b>18<sup>th</sup> Meeting</b></p> <p>The committee requested Shri Rajib Kumar Paul of M/s National Institute of Secondary Steel Technology to review the document and give recommendation on whether the ISO standard can be adopted.</p> <p style="text-align: center;"><b>19<sup>th</sup> meeting</b></p> <p>The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month</p> <p style="text-align: center;"><b>20<sup>th</sup> meeting</b></p> <p>The document was wide circulated for one month and no comments received during the period. However, during the meeting M/s IPSEN – Shri Abhijeet Banerjee requested 1-week time to study the documents before sending it for printing. The committee agreed to the request of Shri Abhijeet Banerjee and advised him to submit the comments within 1 week. In case of absence of any comments, member secretary was advised to proceed the documents for printing</p>	<p>The document was printed on 22-07-2024.</p> <p style="text-align: center;">             IS 17984 part 4_2024.pdf         </p> <p><b>The committee may please note.</b></p>



		<p style="text-align: center;"><b>21<sup>st</sup> Meeting</b></p> <p>Since ISO 13577-4:2014 has been revised as ISO 13577-4:2022. The committee after deliberation and discussion decided to adopt ISO 13577-4: 2022 under dual numbering and the document shall be sent for Wide Circulation for a period of 2 months.</p> <p>Further, the Committee also decided that if no comments received on WC or comments received are in editorial nature same to process for printing on approval of chairman MTD 26.</p> <p>The document is currently under publication stage and is sent for printing on 09-02-2024.</p> <p style="text-align: center;"><b>22<sup>nd</sup> Meeting</b></p> <p>The committee noted the information.</p>	
--	--	--	--

#### Item 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION/PRINTING

SI No	IS No/Doc No./ISO No.	Title	Remarks
1.	IS 12392 : 1988 MTD/26/25871	Code of practice for design, manufacture and testing of metallic recuperators	Please refer Item 3, SI no. 1.
2.	IS 14492 : 1997 MTD/26/24182	Drying, pre-heating and commissioning of furnace installations, steam boilers, industrial kilns and chimneys - Recommendations	Please refer Item 3, SI no. 3.

**The committee may deliberate and decide.**

#### Item 5 DRAFT STANDARD/ AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION

SI No	IS No/Doc No./ISO No.	Title	Remarks
1.	IS 17984 (Part 2): 2024/ISO 13577-2:2014	Industrial furnaces and associated processing equipment -- Safety -- Part 2: Combustion and fuel handling systems	Please refer Item 3, SI no. 4.
2.	IS 12553 : 1988 MTD/26/24181	Code of practice for design, construction, installation and operation of industrial gas/oil burning equipment	Please refer Item 3, SI no. 5.

**The committee may deliberate and decide.**



## Item 6 DRAFTS UNDER PREPARATION

There are no drafts under preparation.

**The committee may please note.**

## Item 7 COMMENTS ON PUBLISHED STANDARDS

No comments were received on the printed Standards since the previous meeting.

**The committee may please note.**

## Item 8 NEW SUBJECTS

**8.1** As per new guidelines received from Competent Authority, any proposal to be taken up for formulation or revision of a standard, it must be submitted through the Standardization Portal and with adequate justification in support of the proposed standard. Proposals which are in the nature of a wish list and do not have the required justification shall be returned to the sender forthwith for resubmission in the desired manner. If the proposal was received from Ministry, the communication should go from DDG and in all other cases from the Head of Department.

**8.2** Where a proposal is made in the Sectional Committee, the member making the proposal should send the proforma beforehand through the portal and present it in the meeting for consideration of the committee.

**8.3** Proforma for proposing new subjects for national standardization is attached below.



PROFORMA FOR  
PROPOSING NEW SL

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

- a) 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.
- b) PRIORITY 2: Whenever there is need to prepare a standard based on international trade.
- c) PRIORITY 3: All other subjects

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

Type	PRIORITY 1	PRIORITY 2	PRIORITY 3
Adoption	6 months	9 months	18 months
Indigenous	9 months	18 months	24 months

**The committee may please note.**

**8.6** There are currently no proposals for new subjects for national standardization which were received since last meeting





The committee may please note.

## Item 9 TECHNICAL ISSUES

There are no technical issues to discuss.

The committee may please 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:

- '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).
- '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
- 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 **ISO/TC 244 Industrial furnaces and associated processing equipment**

**10.1.3** The details of the standards formulated by this ISO Technical Committee are enclosed at [ANNEXURE-3](#).

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.

The committee may please note.

### 10.2 India's participation in ISO meetings

**10.2.1** India being a 'P' member in **ISO/TC 244**, '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.

**10.2.2** List of ISO meeting

ISO	Meeting Number	Mode	From Date - To Date	Location
ISO/TC 244 - Industrial furnaces and associated processing equipment	13	Face to Face	20/11/2024 - 22/11/2024	Osaka, Japan

The committee may please note.



### 10.3 Harmonizing of Indian standards with ISO standards

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

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

**The committee may please note.**

### 10.4 WTO-TBT Enquiry Point

**10.4.1** 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.

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

**10.4.3** 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.

**10.4.4** 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.

**10.4.5** 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.

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

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

**The committee may please note.**

### Item 11 PROGRAMME OF WORK

**11.1** The updated list of Indian Standards formulated by MTD-26 is given at ANNEXURE 2

**The committee may please note.**





## 11.2 Review of Indian Standards

**11.2.1 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:

- i) The standards may be reaffirmed in its present form;
- ii) The standards may be reaffirmed with minor changes by issuing an amendment;
- iii) The standards may be reaffirmed with simultaneously taking up the revision; and
- iv) The standards may be withdrawn.

**11.2.2** 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:

- a) Study and analysis of relevant international standards.
- b) Literature survey on the subject.
- c) Interaction with the industry on the changes in the technologies, manufacturing processes or test methods.
- d) Visit to leading manufacturing units for the first-hand information on the manufacturing processes.
- e) Interaction with BIS officers and labs for feedback on certification and test method related issues.

**11.2.3** 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 organization thereunder. The Sectional Committee shall decide the individuals or organisations to be assigned Action Research projects.

**11.2.4** Review of standards shall be taken up through the Review Module of the Standardization Portal. Following document will guide you:



**11.2.5** The present directives indicate that the standards fall under the above category shall be reviewed thoroughly and while reviewing following points should be considered.

- i) Does the Standard meet the present demand of the industry and the consumers?
- ii) Is it compatible with the available international standards,
- iii) Whether these standards are required to be continued or not,
- iv) Prospective implementation of the standard,

**11.2.6** Standards that are due for review this year are as follows:

Sl No.	IS No.	Title	Due Date
1.	IS 16191 : 2014	Safety for oil fired furnaces	February, 2025

**Members may suggest following options with regard to above standards:**



- i) The standards may be reaffirmed in its present form; (*for standards whose year of publishing is post 2000*)
- ii) The standards may be reaffirmed with minor changes by issuing an amendment; (*Attach the changes with due justification*)
- iii) The standards may be reaffirmed with simultaneously taking up the revision; and
- iv) The standards may be withdrawn. (*Provide justification*)
- v) The standard can be archived. (*for those standards for which no change is recommended, not widely used but they are also not recommended for withdrawal*)

**The Committee may consider for reaffirmation/revision/issue of amendment to the above standards.**

**11.3 Review of A5 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.

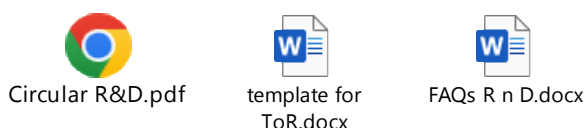
#### **Item 12 IMPLEMENTATION OF INDIAN STANDARDS**

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

**The committee may please note.**

#### **Item 13. R&D PROJECTS FOR ESTABLISHMENT/REVISION OF INDIAN STANDARDS**

**13.1** The new guidelines for R&D projects for establishments /revision of Indian Standards under, FAQs regarding R&D Projects and template for the terms of reference for the R&D projects is enclosed below:



**The Committee may please note.**

#### **Item 14. LATEST INITIATIVES TAKEN BY BIS:**

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

**14.1.1** 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:





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



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



Twitter: [@IndianStandards](http://bit.ly/BISTwitterOfficial)

**The committee may please note.**

#### **14.2 Introducing Young Professionals in the Standardization Activity of BIS:**

**14.2.1** 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.

#### **14.3 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:8071/php/BIS\\_2.0/login](https://www.services.bis.gov.in:8071/php/BIS_2.0/login)

#### **14.4 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).

#### **14.5 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 covenor 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

#### **14.6 Recognition of Contributions of Technical Committees and its Members**



**14.6.1** 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.

**14.6.2** 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.

- a) 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
- b) 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.
- c) Letter of Appreciation to Committee members – to recognize significant contribution of members of technical committees in developing standard(s) that can be major development in the subject areas in national standardization.

**14.7** The Annual Plan for standardization for the financial year 2024-2025 for MTD 26.



FORMAT FOR AAP  
2024-25 (MTD 26).xl:

**The committee may please note.**

#### **ITEM 15. TASKS ASSIGNED TO THE TECHNICAL COMMITTEES BY BIS:**

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

- a. Identification of the new subjects for standardisation.
- b. Preparation of the rolling Annual Action Plan and periodic review of the implementation thereof.
- c. Review of the implementation of the Standardisation National Action Plan (SNAP) in relation to the scope of work of the Technical Committee.
- d. Examination of the Annual Programme for Standardisation, submitted by the Ministries/Departments of the Central Government.
- e. Approve the annual calendar of Technical Committee meetings.
- f. Discuss and approve the Agenda for Technical Committee Meeting.
- g. Formation of Sub-committees, Panels. Working Groups and Task Forces.
- h. Assigning Action Research Projects.



- i. Identification of R&D projects to be commissioned by BIS and the determination of the Scope and Terms of Reference thereof.
- j. Evaluation of R&D proposals received from outside organisations.
- k. Examination of New Work Item Proposals (NWIP) and draft standards received from ISO/IEC.
- l. Participation in the meetings of the Technical Committee or Working Groups of ISO/IEC, as and when nominated by BIS.
- m. Participation in the Workshops /Seminars and Capacity-Building Programmes organized by BIS.

**The Committee may please note.**

**Item 16 DATE AND PLACE OF NEXT MEETINGS (FY 2024-2025):**

Sl No.	Meetings planned	Date (tentative)	Mode/Venue (tentative)
1.	23 <sup>rd</sup> Meeting	13 <sup>th</sup> August 2024	Physical/Hybrid: Manak Bhawan, New Delhi (ENCON Thermal Engineers Private Limited)
2.	24 <sup>th</sup> Meeting	18 <sup>th</sup> October 2024	Physical/Hybrid: Kolkata
3.	25 <sup>th</sup> Meeting	20 <sup>th</sup> January 2025	Physical/Hybrid: Chandigarh

As per recent instructions, one TC meeting and seminar needs to be conducted at one of the following Institutions. The committee is requested to provide details regarding the tentative date, the location where the seminar should be conducted, as well as the topic and the nominated speakers. List of the MOU Institutes is placed below:



Institute list  
MOU's.xlsx

**Item 17 ANY OTHER BUSINESS**

**a) Transfer of Indian Standard IS 13306 from MED 17 to MTD 26 –**

1. The Chemical Engineering Plants and related equipment Sectional Committee, MED 17 in its 19<sup>th</sup> meeting decided to transfer Indian Standard IS 13306:1992 Oil and gas fired thermic fluid heaters - Method of calculation of film temperatures to the technical department of BIS handling ISO TC 244 Industrial furnaces and associated processing equipment.
2. Industrial Fuel-Fired Furnaces Sectional Committee, MTD 26 is the relevant Committee having liaison with ISO TC 244 - Industrial Furnaces and Associated Processing Equipment and its scope is as the following:  
‘Standardization in the field of industrial fuel fired furnaces’
3. In view of the above, proposal was put up and approval for the transfer of the standard was received from MEDC in its 26<sup>th</sup> meeting dated 29 November 2022. The relevant extract of the minutes of the MEDC meeting is attached.
4. In view of the above, MTD 26 may take necessary action.
5. Submitted for approval, please.



filePageNo1722834  
655504.pdf

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

The present composition of sectional committee and their participation in last 3 meetings were given at

The committee may please deliberate and decide.



### ANNEXURE 1 1

(Item 2 SCOPE AND COMPOSITION OF COMMITTEE)

**Scope:** Standardization in the field of industrial fuel fired furnaces.

Meeting	Date	Place
Twentieth	19 <sup>th</sup> July 2022	New Delhi (Virtual)
Twenty-First	9 <sup>th</sup> August 2023	New Delhi (Virtual)
Twenty-second	15 <sup>th</sup> March 2024	New Delhi (Hybrid)

**CHAIRMAN:** Shri Ajay Kumar

Sl No.	Organization	Represented by Principal/Alternate	20 <sup>th</sup>	21 <sup>st</sup>	22 <sup>nd</sup>	Last three meeting attended
(1)	Bharat Forge Limited, Pune	Shri Jayant K. Deshmukh  Shri Subhash S Yewale (Retired) (Alternate)	Y	Y	Y	3/3
(2)	Bureau of Energy Efficiency, New Delhi	Shri Milind B. Deore  Shri P. Shayam Sunder (Alternate)	New Member	Y	N	1/2
(3)	CSIR- Central Glass & Ceramic Research Institute , Kolkata	Shri Sitendu Mondal (Alternate)	N	N	N	0/3 (termination notice sent on 22 May 2024)
(4)	Durgapur Steel Plant, SAIL Durgapur	Shri Kesri	N	N	N	0/3
(5)	ENCON Thermal Engineers Private Limited.	Shri Vishve Bandhu Mahendra  Shri Puneet Mahendra (Alternate)	Y	N	Y	2/3
(6)	Eastern Equipment & Engineers, Kolkata	Shri Alok Basu  Shri Rajesh Chakravorty (Alternate)	Y	N	Y	2/3
(7)	Indian Institute of Technology, Kharagpur	Dr. Sukanta Kumar Dash  Dr. Mahendra Reddy Vanteru (Alternate)	N	N	N	0/3 (termination notice sent on 22 May 2024)
(8)	Indian Seamless Metal Tubes (ISMT) Ltd, Pune	Shri Balram Agrawal  Shri Bhagwan Paralkar (Alternate)	N	N	N	0/3 (termination notice sent on 22 May 2024)



(9)	Ipsen Technologies Pvt Ltd, Kolkata	Shri Abhijit Banerjee Shri Partha Guha Ray (Alternate)	Y	Y	N	2/3
(10)	M.N Dastur & CO (P) Ltd (P-17, Mission Row Extn. Pin-700013, Kolkata)	Smt. Sarbari Dhari (Principal) Shri Santu Bhattacharyya (Young Professional)	N	Y	Y	2/3
(11)	MECON Limited, Ranchi	Shri Subhojyoti Chattopdhyay - not on portal Shri A.K. Sinha (Alternate)	N	N	Y	1/3
(12)	National Institute of Secondary Steel Technology, Mandi, Govindgarh Punjab	Shri Rajib Kumar Paul Shri Sandeep Pal Singh (Alternate)	Y	N	Y	2/3
(13)	Rail Wheel factory, Bengaluru	Shri D.K. Gaur Shri Naresh Kumar Barnawal (Alternate) Shri Ashwani Kumar D (Young Professional)	Y	N	N	1/3
(14)	Steel Authority of India Limited(SAIL), Visvesvaraya Iron and Steel Plant (VISL), Bhadravathi	Shri Samuel Prabhurajan Shri Chinna Krishna (Alternate)	N	N	Y	1/3
(15)	SAIL, Bokaro Steel Plant, Bokaro	Shri Prabir Kumar Bhuin Smt. Lalita Biruli (Alternate)	N	N	N	0/3
(16)	Steel Authority of India Limited, Bhilai Steel Plant, Bhilai	Shri Ajay Gajghate Shri Kamal (Alternate)		N	P	1/2
(17)	Steel Authority of India Limited (SAIL) Rourkela Steel Plant, Rourkela	Shri Abit Santosh Khakha Shri Brijeshwar Prasad Pandey (Alternate)	Co-opted		P	1/1
(18)	Steel Authority of India, Centre for Engineering and Technology, Ranchi	Shri Manish Kumar (Alternate)	Y	Y	Y	3/3
(19)	Tata Steel Limited, Jamshedpur	Dr. S. Sikdar (Retired)	N	N	N	0/3
(20)	The Wesman Engg Company Ltd, Kolkata.	Shri Gautam Samanta	N	Y	Y	2/3





		Shri Amit Chaudhuri (Alternate)				
(21	Personal capacity	Shri Sourav Ghosal	co-opted	N	N	0/2



**Error! Reference source not found. (Item 11 PROGRAMME OF WORK)**

Sl. No.	IS No.	Title	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 8849 : 2024/ ISO 13574 : 2015	Industrial Furnaces and Associated Processing Equipment - Vocabulary (Second Revision)	-	-	Identical under dual numbering
2	IS 9180 : 2011	Recommendations for performance rating of fuel - fired furnaces Second Revision	March, 2021	-	Indigenous
3	IS 9444 : 2007	Code of practice for installation of oil supply units for fuel - Fired furnaces First Revision	March, 2023	-	Indigenous
4	IS 9977 : 1998	Design and construction of box type forging furnaces - Guidelines First Revision	March, 2023	1	Indigenous
5	IS 10298 : 1982	Guidelines for design and construction of mould and core drying ovens for foundries	March, 2021	-	Indigenous
6	IS 11462 : 1985	Specification for mould and core sand dryers rotary type	March, 2021	1	Indigenous
7	IS 12368 : 1988	Guidelines for design and construction of hot air generators	March, 2021	1	Indigenous
8	IS 12392 : 1988	Code of practice for design manufacture and testing of metallic recuperators	March, 2021	-	Indigenous
9	IS 12553 : 1988	Code of practice for design construction installation and operation of industrial gas oil burning equipment	November, 2023	-	Indigenous
10	IS 12826 (Part 1) : 1989	Code Of Practice For Ordering Testing And Acceptance Of Industrial Furnaces Part 1 Purchaser s Data Sheet For Ordering Of Industrial Furnaces	March, 2021	1	Indigenous
11	IS 12826 (Part 2): 1990	Ordering Testing and Acceptance of Industrial Furnaces - Code of Practice - Part 2 Supplier s Data Sheet for the Supply of Industrial Furnaces	March, 2023	-	Indigenous



12	IS 12826 (Part 3): 1990	Code of practice for ordering testing and acceptance of industrial furnaces Part 3 testing and acceptance of industrial furnaces	March, 2023	1	Indigenous
13	IS 14245 : 1995	Protective atmosphere for heat treatment furnaces - Recommendations	March, 2023	-	Indigenous
14	IS 14492 : 1997	Drying pre-heating and commissioning of furnace installations steam boilers industrial kilns and chimneys -	November, 2023	-	Indigenous
15	IS 15562 : 2005	Design and construction of fuel fired bogie hearth type heat treatment furnaces - Guidelines	March, 2023	-	Indigenous
16	IS 16191 : 2014	Safety for oil fired furnaces	February, 2020	-	Indigenous
17	IS 16206 : 2017	Safety for gas fired furnaces	March, 2022	-	Indigenous
18	IS 17082 : 2019	Guidelines for Design and Construction of Continuous Pusher Type Oil Gas Top Fired Reheating Furnaces		-	Indigenous
19	IS 17914 (Part 1) : 2022/ ISO 13579-1: 2013	Industrial furnaces and associated processing equipment Method of measuring energy balance and calculating efficiency Part 1: General methodology		-	Identical under dual numbering
20	IS 17914 (Part 2) : 2022 / ISO 13579-2 : 2013	Industrial furnaces and associated processing equipment Method of measuring energy balance and calculating efficiency Part 2: Reheating furnaces for steel		-	Identical under dual numbering
21	IS 17914 (Part 3) : 2022 / ISO 13579-3 : 2013	Industrial furnaces and associated processing equipment Method of measuring energy balance and calculating efficiency Part 3: Batch-		-	Identical under dual numbering



22	IS 17914 (Part 4) : 2022 / ISO 13579-4 : 2013	Industrial furnaces and associated processing equipment Method of measuring energy balance and calculating efficiency Part 4: Furnaces with protective or reactive atmosphere		-	Identical under dual numbering
23	IS 17914 (Part 5) : 2022 / ISO 13579-11 : 2017	Industrial furnaces and associated processing equipment Method of measuring energy balance and calculating energy efficiency Part 11: Evaluation of various kinds of efficiency		-	Identical under dual numbering
24	IS 17984 (Part 1) : 2024 ISO 13577-1 : 2016	Industrial furnaces and associated processing equipment - Safety - Part 1: General requirements		-	Identical under dual numbering
25	IS 17984 (Part 2) : 2024 ISO 13577-2:2014	Industrial furnaces and associated processing equipment -- Safety -- Part 2: Combustion and fuel handling systems		-	Identical under dual numbering
26	IS 17984 (Part 3) : 2024 ISO 13577-3:2016	Industrial furnaces and associated processing equipment -- Safety -- Part 3: Generation and use of protective and reactive atmosphere gases		-	Identical under dual numbering
27	IS 17984 (Part 4) : 2024 ISO 13577-4:2022	Industrial Furnaces and Associated Processing Equipment - Safety Part 4 Protective Systems		-	Identical under dual numbering



### ANNEXURE-3

#### List of standards published by ISO/TC 244

Status of India in ISO/TC 244 Industrial furnaces and associated processing equipment - 'P' Member

Sl No.	ISO No.	Standard And/or Project Under The Direct Responsibility of ISO/TC 244 Secretariat (12)	Status of Adoption at BIS
1)	ISO 4529 : 2023	Industrial furnaces and associated processing equipment — Secondary steelmaking — Machinery and equipment for treatment of liquid steel	ISO standard has been recently published. <b>The Committee may deliberate and discuss for adoption.</b>
2)	ISO 13574 : 2015	Industrial furnaces and associated processing equipment — Vocabulary	Revised IS 8849 by adopting ISO 13574 : 2015 under dual numbering system. Document was published on 1 <sup>st</sup> May 2024.
3)	ISO 13577-1 : 2016	Industrial furnaces and associated processing equipment — Safety — Part 1: General requirements	Published
4)	ISO 13577-2:2023	Industrial furnaces and associated processing equipment — Safety — Part 2: Combustion and fuel handling systems	Under process as the committee in its 22 <sup>nd</sup> meeting decided to revise IS 17984 (Part 2): 2024/ISO 13577-2:2014 by adopting latest version ISO 13577-2: 2023.
5)	ISO 13577-3 : 2016	Industrial furnaces and associated processing equipment — Safety — Part 3: Generation and use of protective and reactive atmosphere gases	Published
6)	ISO 13577-4 : 2022	Industrial furnace and associated processing equipment — Safety — Part 4: Protective systems	Published
7)	ISO 13578 : 2017	Industrial furnaces and associated processing equipment — Safety requirements for machinery and equipment for production of steel by electric arc furnaces	Not under the purview of MTD 26. Electric furnace is dealt by ETD 18 (Industrial Process Measurement and Control Sectional Committee)
8)	ISO 13579-1 : 2013	Industrial furnaces and associated processing equipment — Method of measuring energy balance and calculating efficiency — Part 1: General methodology	Published
9)	ISO 13579-2 : 2013	Industrial furnaces and associated processing equipment — Method of measuring energy balance and calculating efficiency — Part 2: Reheating furnaces for steel	Published
10)	ISO 13579-3 : 2013	Industrial furnaces and associated processing equipment — Method of measuring energy balance and calculating	Published



		efficiency — Part 3 Batch-type aluminium melting furnaces	
11)	ISO 13579-4 : 2013	Industrial furnaces and associated processing equipment — Method of measuring energy balance and calculating efficiency — Part 4: Furnaces with protective or reactive atmosphere	Published
12)	ISO 13579-11 : 2017	Industrial furnaces and associated processing equipment — Method of measuring energy balance and calculating energy efficiency — Part 11: Evaluation of various kinds of efficiency	Published
13)	ISO 20431 : 2023	Heat treatment — Control of quality	Heat treatment is dealt by MTD22 and is not under the scope of the sectional committee MTD26
14)	ISO 23495 : 2021	Industrial furnaces and associated processing equipment — Safety requirements for steel converter and associated equipment	<b>The Committee may deliberate and discuss for adoption.</b>