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***भारतीय मानक ब्यूरो***

***BUREAU OF INDIAN STANDARDS***

###### **MINUTES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Committee** | **No. of Meeting** | **Date & Day** | **Time** | **Hybrid Meeting** |
| **Industrial Fuel Fired Furnaces Sectional Committee, MTD 26** | **23rd** | **13-08-2024**  **Tuesday** | **11 : 30 AM** | **Venue:** ENCON Thermal Engineers Private Limited  (53 KM Stone, Delhi - Mathura Road, Vill. Baghola, Distt. Palwal - 121 102 Haryana (India))  **Link:** <https://bismanak.webex.com/bismanak/j.php?MTID=maa65f7ebf2a052c931accfe5ea3eec58>  **Meeting Id :** 2510 732 3196  **Password :** mtd26  **Contact :** [mtd26@bis.gov.in](mailto:mtd26@bis.gov.in) |

**Chairperson:**  Shri Ajay Kumar  **Member Secretary:** Smt.Challakonda Vidisha

# **ATTENDANCE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Organization** | **Member Name** | **Present/Absent** |
|  | Ex - Steel Authority of India, Centre for Engineering and Technology, Ranchi | Shri Ajay Kumar (***Chairperson***) | **Present**  **(virtually)** |
|  | Bharat Forge Limited, Pune | **Principal Member:** **Shri Jayant Deshmukh**  **Alternate Member :** Shri Subhash S Yewale | **Present**  **(virtually)** |
|  | Bureau of Energy Efficiency, New Delhi | **Principal Member :** Shri Milind B. Deore  **Alternate Member:** **Shri P. Shayam Sunder** | **Present**  **(virtually)** |
|  | CSIR - Central Glass and Ceramic Research Institute, Kolkata | **Alternate Member :** Dr Sitendu Mandal | Absent |
|  | Durgapur Steel Plant, SAIL Durgapur | **Principal Member :** Shri Kesri | Absent |
|  | ENCON Thermal Engineers Private Limited, Baghola | **Principal Member:** **Shri Vishve Bandhu Mahendra**  **Alternate Member:** **Shri Puneet Mahendra** | **Present**  **(physically)** |
|  | Eastern Equipment and Engineers Private Limited, Kolkata | **Principal Member:** **Shri Alok Basu**  **Alternate Member:** **Shri Rajesh Chakravorty** | **Present**  **(virtually)** |
|  | Indian Institute of Technology Kharagpur, Kharagpur | **Principal Member :** Dr. Sukanta Kumar Dash  **Alternate Member :** **Dr. Mahendra Reddy** Vanteru | **Present**  **(virtually)** |
|  | Indian Seamless Metal Tubes Limited, Jaipur | **Principal Member :** Shri Balram Agarwal  **Alternate Member :** Shri Bhagwan Paralkar | Absent |
|  | Ipsen Technologies Pvt Ltd, Kolkata | **Principal Member :** Shri Abhijit Banerjee  **Alternate Member :** Shri Partha Guha Ray | Absent |
|  | MECON Limited, Ranchi | **Alternate Member:** **Shri A.K. Sinha** | **Present**  **(virtually)** |
|  | MN Dastur and Company Private Limited, Kolkata | **Alternate Member :** Shri Sarbari Dhari  **Young Professional :** Shri Santu Bhattacharya | Absent |
|  | National Institute of Secondary Steel Technology, Mandi Gobindgarh | **Principal Member :** Shri Rajib Kumar Paul  **Alternate Member :** Shri Sandeep Pal Singh | Absent |
|  | Rail Wheel Factory, Bengaluru | **Alternate Member :** Shri D.K. Gaur  **Principal Member :** Shri Naresh Kumar Barnawal  **Young Professional :** Shri Ashwani Kumar D | **Present**  **(virtually)** |
|  | Steel Authority Of India Limited(SAIL), Visvesvaraya Iron and Steel Plant (VISL), Bhadravathi | **Principal Member :** **Shri Samuel Prabhurajan**  **Alternate Member :** Shri Chinna Krishna | **Present**  **(physically)** |
|  | Steel Authority of India Limited (SAIL) Rourkela Steel Plant,Rourkela | **Principal Member :** **Shri Abit Santosh Khakha**  **Alternate Member :** **Shri Brijeshwar Prasad Pandey** | **Present**  **(virtually)** |
|  | Steel Authority of India Limited, Bhilai Steel Plant, Bhilai | **Principal Member :** **Shri Ajay Gajghate**  **Alternate Member :** **Shri Kamal** | **Present**  **(virtually)** |
|  | Steel Authority of India Limited, Bokaro Steel Plant, Bokaro Steel City | **Principal Member :** **Shri Prabir kumar bhuin**  **Alternate Member :** Shrimati Lalita Biruli | **Present**  **(virtually)** |
|  | Steel Authority of India, Centre for Engineering and Technology, Ranchi | **Principal Member :** **Shri Manish Kumar** | **Present**  **(physically)** |
|  | Tata Steel Limited, Jamshedpur | **Principal Member :** Dr. S. Sikdar (Retired) | Absent |
|  | The Wesman Engineering Company Private Limited, Kolkata | **Principal Member :** **Shri Gautam Samanta**  **Alternate Member :** Shri Amit Chaudhuri | **Present**  **(physically)** |
|  | In Personal Capacity | **Personal Capacity :** Shri Saurav Ghosal | Absent |
| **INVITEES** | | | |
|  | Arjas Modern Steel - Mandi Gobindgarh | Shri Sanjeev Dalodria | Present  (virtually) |
|  | IIT, Delhi | Prof. Krishnakant Agrawal | Present  (virtually) |

# **Item 0 WELCOME AND OPENING REMARKS**

Smt. Challakonda Vidisha, member secretary, MTD 26 welcomed the chairman and all the committee members to the 23rd committee meeting of Industrial Fuel Fired Furnaces Sectional Committee, MTD 26. The member secretary requested the committee members to actively participate in the upcoming meetings as well and informed about the latest guidelines, where members who are absent for two consecutive meetings or more than 50% meetings held by TC in a year will be terminated by BIS. She encouraged the committee members to actively contribute to the standards formulation of MTD 26 by commenting on P-drafts. She informed that BIS has signed MoU with about 90 reputed educational institutes and the next TC meeting followed by seminar to be organized in one of these institutes.

The members proposed organizing the next Technical Committee (TC) meeting in regions where industry clusters, particularly small-scale industries, are located. This would help the committee better understand the challenges faced by these industries and revise the standards to address their needs. The committee requested Shri P. Shayam Sunder from the Bureau of Energy Efficiency, New Delhi, to share the details of these small-scale industries so they can be invited to the seminar.

Shri Ajay Kumar, Chairman, MTD 26 welcomed the members to the 23rd committee meeting of Industrial Fuel-Fired Furnaces Sectional Committee, MTD-26.

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

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.

Since, no further comments were received on the Minutes of 22nd meeting of Industrial Fuel Fired Furnaces Sectional Committee, MTD 26 held on 15th March 2024 (Friday)through virtual mode, were circulated to the members vide email dated 28-03-2024 and revised minutes on 08-04-2024, the Committee confirmed the minutes of the meeting.

**Item 2 SCOPE AND COMPOSITION OF COMMITTEE**

**2.1.1** The committee noted the information at Item 2.1 of the agenda and the members including chairman has suggested that Shri Manish Kumar, SAIL CET would be the most suitable member to chair MTD26 in the next term. The same will be proposed to MTDC for approval.

**2.1.2** The following inactive members were identified:

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| **Sl No.** | **Organization** | **Principal member** | **Alternate member** |
|  | Indian Seamless Metal Tubes Limited, Jaipur | Shri Balram Agarwal | Shri Bhagwan Paralkar |
|  | CSIR - Central Glass and Ceramic Research Institute, Kolkata | - | Dr Sitendu Mandal |
|  | Durgapur Steel Plant, Sail Durgapur | Shri Kesri | - |
|  | Tata Steel Limited, Jamshedpur | Dr. S. Sikdar | - |
|  | In Personal capacity | Shri Sourav Ghosal | - |

**The committee decided to terminate the membership of the above organizations**.

**2.1.3** It was informed during the meeting that Shri A.K. Sinha representing MECON Limited, Ranchi has left the organization but is interested to continue membership in person capacity.

The committee requested member secretary to seek fresh nominations from MECON Limited and contact details of nominating authority to be given by Shri A.K. Sinha.

**2.2** The committee noted the information at Item 2.2 to 2.5 of the agenda.

**2.3** The committee noted the information at Item 2.6 of the agenda and decided to co-opt the following organization in the committee.

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| **Sl No.** | **Organization** | **Remark** | **Action Taken** | **Remarks** |
|  | 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 noted the information. |

# **Item** **3 ACTION TAKEN REPORT**

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| --- | --- | --- | --- | --- |
| **Sl No.** | **Subject** | **Decision of the committee during previous meetings** | **Action Taken** | **Decision of the committee** |
|  | Revision of   **IS 12392 : 1988** Code of practice for design manufacture and testing of metallic Recuperators | **18th Meeting**  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.  Reminder was sent over email 09/08/2021,14/10/2021,26/10/2021,15/11/2021.  **19th Meeting**  The committee requested M/s Eastern Equipment and Engineers Pvt Ltd to submit the Working draft within one month to BIS.  Working draft received and placed below :    The committee is requested to form a panel on the subject to prepare a draft standard.  **20th Meeting**  The committee decided to form a new panel **(MTD26:P02)** for the drafting of this standard.  Panel Composition:   1. **M/s SAIL CET** - Shri Manish kumar 2. **M/s ENCON Thermal engineers pvt ltd** - Shri Vishve Bandhu Mahendra 3. **M/s Eastern equipment and Engineers Pvt Ltd**   - Shri Alok Basu (convener) 4. **M/s Wesman Engg Company Ltd** 5. **M/s Petroleum Conservation Research Association (PCRA)**   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:    **21st 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 28th November 2023 and 29th February 2024.  Reply awaited.  The modified draft from Mr. Alok Basu was received after the agenda had been circulated and is placed below.    **22nd Meeting**  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. | The document **MTD/26/25871** was P circulated for the period of 14 days and no comments were received.  Hence, the document **MTD/26/25871** is sent for wide circulation for 30 days on 02-08-2024.  **The committee may please deliberate and decide.** | The committee decided to finalize the wide circulated document **MTD/26/25871** after the completion of WC period if no comments are received/comments received are editorial in nature and send for printing. |
|  | Revision of **IS 17082 : 2019** MTD 26 (23691) Guidelines for Design & Construction of Continuous pusher type coal/oil/gas fired reheating furnaces | **18th Meeting**  The committee decided to form a panel to finalize the draft.  The panel consists of :   1. **SAIL CET (convenor)-** Shri Manish kumar 2. **ENCON Thermal engineers pvt ltd** - Shri Vishve Bandhu Mahendra 3. **Eastern equipment and Engineers Pvt Ltd**   - Shri Alok Basu 4. **Wesman Engg Company Ltd**  - Shri Gautam Samanta   Working Draft is placed at [ANNEXURE 3](https://docs.google.com/document/d/1E7zCk6MQ2KOeB7F6YvLFBlZRvXM1q2Lk/edit#bookmark=id.1ksv4uv)  Member Secretary BIS will organise online meeting of the panel.  Timeline was set to **45 days.**  The panel MTD26:P01 conducted 1st meeting on 25/08/2021 and second meeting on 1st Dec 2021.  Panel convener: Shri Manish Kumar of M/s SAIL CET  Working draft provided by Panel is attached below:    **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](https://docs.google.com/document/d/1E7zCk6MQ2KOeB7F6YvLFBlZRvXM1q2Lk/edit#bookmark=id.3rdcrjn)  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.    **20th 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.  **21st Meeting**  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.  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 document MTD/26/23691 is sent for wide circulation for 60 days on 06-03-2024.  **22nd Meeting**  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. | The document **MTD/26/23691** isfinalized and sent for printing.  **The Committee may please note.** | The committee noted the information. |
|  | **IS 14492 : 1997** Drying, pre-heating and commissioning of furnace installations, steam boilers, industrial kilns and chimneys - Recommendations | **21st Meeting**  This standard to be reaffirmed and revised to bring the standard in the latest style and format of the Indian Standards.  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.  The draft was P- circulated on 24th November 2023 for the period of 21 days and no comments were received.  **22nd Meeting**  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. | The document **MTD/26/24182** was sent for Wide Circulation for a period of 30 days from 31-05-2024 to 30-06-2024.  During Wide circulation period of the document a comment has been received from **Shri Anup Chandra** -  “Some Guidelines for Location of Chimney for Different Type of Metallurgical Furnaces May Be Included in The Standard.  This Particularly for Electrically Heated Systems”  **The Committee may please deliberate and decide.** | The committee decided that the comments received from Shri Anup Chandra are not relevant to this standard as this standard gives information about drying, preheating, commissioning of furnace for which drawings are already specified (location/layouts/drawings are not under the scope of this standard) also MTD26 committee deals with only fuel fired furnaces & related equipment, electrically heated systems are not a part of this committee and hence decided to finalize the document **MTD/26/24182** and send for printing. |
|  | **IS 12553 : 1988** Code of practice for design, construction, installation and operation of industrial gas/oil burning equipment | **21st Meeting**  This standard to be reaffirmed and revised to bring the standard in the latest style and format of the Indian Standards.  The draft was P- circulated on 20th November 2023 for the period of 21 days and no comments were received.  **22nd Meeting**  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. | It was observed that the reference Australian standard AS 1375: 1979 has revised in 1985, 2013 and 2023. Major changed have been done during these revisions.  Though it was decided torevise 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.  **The Committee may please deliberate and decide.** | The committee advised the member secretary to circulate the list of major changes with respect to AS 1375:2023 among the committee members for a period of two weeks for their views and comments on whether major changes in AS 1375:2023 are to be incorporated in IS 12553 or not and also to express their interest to be the part of working to contribute to the revision of this standard.  If it was decided to revise the standard based on AS 1375, a working group may be formed with the members who have expertise in this subject. |
|  | **ISO 13577-2:2023** Industrial furnaces and associated processing equipment -- Safety -- Part 2: Combustion and fuel handling systems | **18th Meeting**  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.  **19th meeting**  The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month  **20th meeting**  The committee decided to send the document for printing since no comments were received for the wide circulation draft  **21st Meeting**  The Committee decided to send the document for printing.  The document has been published under dual numbering IS 17984 (Part 2): 2024/ ISO 13577-2:2014.  Also, ISO 13577-2: 2014 has been revised by ISO 13577-2:2023.  **22nd Meeting**  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. | As decided, the documentwill be sent for Wide Circulation for the period of 30 days as decided by the committee in 22nd committee meeting.  **The committee may please note.** | The committee noted the information. |
|  | **ISO 13577-3:2016** Industrial furnaces and associated processing equipment -- Safety -- Part 3: Generation and use of protective and reactive atmosphere gases | **18th Meeting**  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.  **19th meeting**  The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month.  **20th meeting**  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  **21st Meeting**  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.  The Committee also decided to send the document MTD26 (19269) for printing.  The document is currently under publication stage and is sent for printing on 09-02-2024.  **22nd Meeting**  The committee noted the information. | The document was printed on 04-06-2024.    **The committee may note.** | The committee noted the information. |
|  | **ISO 13577-4:2022** Industrial furnaces and associated processing equipment – Safety-Part 4: Protective systems | **18th Meeting**  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.  **19th meeting**  The committee after detailed deliberation decided to send the document for wide circulation for a period of 1 month  **20th meeting**  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  **21st Meeting**  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.  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 document is currently under publication stage and is sent for printing on 09-02-2024.  **22nd Meeting**  The committee noted the information. | The document was printed on 22-07-2024.    **The committee may please note.** | The committee noted the information. |

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

The committee decided to finalize the following documents and send it for printing.

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| --- | --- | --- | --- |
| **Sl No** | **IS No/Doc No./ISO No.** | **Title** | **Remarks** |
|  | IS 12392 : 1988  MTD/26/25871 | Code of practice for design, manufacture and testing of metallic recuperators | Please refer Item 3, Sl no. 1. |
|  | 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, Sl no. 3. |

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

The committee decided to Wide circulate the following documents for a period of 30 days.

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| --- | --- | --- | --- |
| **Sl No** | **IS No/Doc No./ISO No.** | **Title** | **Remarks** |
|  | 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, Sl no. 5. |

# **Item 6 DRAFTS UNDER PREPARATION**

The following drafts are under preparation.

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| --- | --- | --- | --- |
| **Sl No** | **IS No/Doc No./ISO No.** | **Title** | **Remarks** |
|  | 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, Sl no. 4. |

**Item 7 COMMENTS ON PUBLISHED STANDARDS**

The committee noted the information at Item 7.

**Item 8 NEW SUBJECTS**

The committee noted the information at Item 8.

**Item 9 TECHNICAL ISSUES**

The committee noted the information at Item 9***.***

**Item 10 INTERNATIONAL ACTIVITIES**

**10.1** The committee noted the information at Item 10.1

The committee advised the member secretary to circulate ISO 4529:2023 & ISO 23495:2021 to all the committee members for their views and recommendations on whether new Indian standards on the above subjects to be taken up or not.

**10.2** The committee noted the information at Item 10.2.

| **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 |

**Item 11 PROGRAMME OF WORK**

**11.1** The committee noted the information at Item 11.1.

**11.2.** The committee noted the information at Item 11.2.

Standards that are due for review this year are as follows and the committee decided as follows**:**

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| --- | --- | --- | --- | --- |
| **Sl No.** | **IS No.** | **Title** | **Due Date** | **Decision of the committee** |
| 1. | IS 16191 : 2014 | Safety for oil fired furnaces | February, 2025 | The committee requested Shri Vishve Bandhu Mahendra from ENCON Thermal Engineers Private Limited and Shri Gautam Samanta from The Wesman Engineering Company Private Limited to review the standard and give their inputs within 1 month. |

**11.3** The committee noted the information at Item 11.3.

# **Item 12 IMPLEMENTATION OF INDIAN STANDARDS**

The committee noted the information at Item 12.

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

The committee noted the information at Item 13.

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

The committee noted the information at Item 14.

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

The committee noted the information at Item 15.

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

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

# **Item 17 ANY OTHER BUSINES****S**

The committee has decided to accept the transfer of IS 13306:1992 “Oil and gas fired thermic fluid heaters-Method of calculation of film temperatures” to MTD 26 as the standard is within the scope of MTD 26 “Standardization in the field of industrial fuel fired furnaces” & ISO/TC 244 -Industrial Furnaces and associated processing equipment.

Further, the committee requested member secretary to share this standard to all the members to identify the members who has expertise in this subject.