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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

AGENDA

MEETING	DAY and DATE	TIME
27th Meeting of Boilers & Pressure Vessels Sectional Committee, MED 01	29 May 2024 (Wednesday)	11:00 AM Lal C Verma Hall, BIS HQ, Manak Bhawan, New Delhi (Hybrid)

CHAIRPERSON: Mr. Sandeep Sadanand Kumbhar, Technical Advisor (Boilers) & Secretary, Central Boilers Board, Ministry of Commerce and Industry.

MEMBER SECRETARY: Mr. Lokraj Meena, Sc. 'C' & Deputy Director, MED, BIS HQ, New Delhi.

0.1 Welcome by Head (MED)

0.2 Opening remarks by Chairperson, MED 01

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Minutes of 26th Meeting of Boilers and Pressure Vessels Sectional Committee MED 01, held on November 28, 2023 was circulated to the members vide our letter no. MED 01/A-2.27 dated 18 December 2023. No comments have been received till the last date.

There being no comments on the minutes of the last meeting, the Committee may formally confirm the minutes of the last meeting.

ITEM 2 SCOPE AND COMPOSITION OF COMMITTEE

2.1 Scope

- a) Formulation of standards for terminology, acceptance tests layout of boilers and other aspects not covered under the Indian Boilers Regulations.
- b) Preparation of code for Unfired Pressure Vessels
- c) Co-ordination of work with ISO/TC 11 Boilers and Pressure Vessels.

2.2 COMPOSITION OF THE COMMITTEE

2.2.1 The composition of the Sectional Committee as last reviewed is given at Annex A.

The Committee may kindly note.

2.2.2 Co-option of new members and nomination update of existing members

(A) During the last meeting, the Committee decided to send a reminder to following organisations for obtaining updated nomination:

- a) Mr Prabhjot Singh Sahi from Central Electricity Authority, New Delhi.

An email dated 10 April 2024 was sent to Shri Prabhjot Singh Sahi. However no response has been received till date.

- b) Dr. B. Shanmugarajan & Mr. K. Ganesh Kumar from M/s Welding Research Institute, Tiruchirappalli,

During the last meeting, Mr Sathyan V, M/s Bharat Petroleum Corporation Limited, Mumbai kindly agreed to follow up. However, no inputs have been received from him till date.

Also the representatives of M/s Welding Research Institute, Tiruchirappalli has attended the previous 2 committee meetings.

- c) Mr. Y. Sriramulu, M/s Hindustan Petroleum Corporation Limited, Mumbai,

During the last meeting Mr T. R. Subranian, M/s Bureau Veritas India Private Limited, kindly agreed to follow up.

An email dated 10 May 2024 was sent to Shri T. R. Subranian, M/s Bureau Veritas India Private Limited. However no response has been received till date.

The Committee may kindly note and decide.

(B) Requests have been received from following organization(s) for co-option in the Committee:

- a) Shri Rushiprasad Patel, In Personal Capacity

<https://drive.google.com/file/d/1tLYxdCu58mtk8E2ThbwHHVfIB-JNz75J/view?usp=sharing>

b) Shri Shashikant Jagmitra Joshi, Nirma University

https://drive.google.com/file/d/1fx_M6k6aur96NBkNdxPa73Drg3vSD_v1/view?usp=sharing

c) Shri Shah Dhaval B., Nirma University

<https://drive.google.com/file/d/1pVi45jpZpPobRsFics4okUHI7DDsClGh/view?usp=sharing>

The Committee may kindly discuss and decide on the above co-options requests received.

2.2.3 As per the BIS guidelines, Committees should represent all interest groups such as organized consumers/users, industry, technologist and regulatory bodies/NGOs etc. However, consumer interests shall as far as possible predominate. Where non-industry interests are less than 2/3, it may be reviewed. Stakeholders such as manufacturers/service providers as well as consumer activists should as far as possible represent industries association and organizations and not individual companies. Also, it may be desirable to induct and involve new people in the work of Sectional Committees with an aim to infuse fresh ideas and it is suggested that member organizations may like to keep this aspect in view while nominating their representations in the technical Committees.

Also, the Committee may **IDENTIFY** and **INVOLVE** talent available in the country related to the subject of the Committee and also suggest methodology to involve them in the proceedings of the Committee.

Recently towards encouraging the participation of young professionals representing the member organizations on the Committee, it was decided by BIS that an additional member up to the age of 37 years may also be nominated by each organization.

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

2.2.4 Gender Responsive Standards Initiative

Bureau of Indian Standards is a signatory to the UNECE Gender Responsive Standards Declaration. The UNECE Gender Responsive Standards Initiative aims to provide a practical framework for standards bodies seeking to make the standards they develop, and the standards development process they follow, gender responsive. Established in 2016, the Initiative has the objectives of:

- a) Strengthening the use of standards and technical regulations as powerful tools to attain SDG 5 (Achieve gender equality and empower all women and girls);
- b) Integrating a gender lens in the development of both standards and technical regulations; and
- c) Elaborating gender indicators and criteria that could be used in standards development.

In line with these objectives, BIS aims to work towards:

- i) Gender responsive standards;


- ii) Gender balance at all levels in all Committees including leadership positions; and
- iii) Enhanced expertise to create and deliver gender inclusivity.

The Committee members **ARE REQUESTED** to work in tandem with these aims to create a gender balance environment in all walks of life through standards.

*The Committee may kindly **REVIEW** the composition considering the above.*

Item 3 ACTIONS ARISING OUT OF THE MINUTES OF THE 26th MEETING

The summary of actions taken on the minutes of the 26th Meeting of Boiler & Pressure Vessels Sectional Committee, MED 01 and present status is given below:

Sl No	Item no*	Decision taken in the Previous meetings	Actions taken
1.	6.1, sl no 1	<p>Revision of IS 2825: 1969 (Code for unfired pressure vessels)</p> <p>The Committee decided to add the following members to Panel 05 for revision of IS 2825 : 1969:</p> <ul style="list-style-type: none"> a) Mr Ranjit D. Naik, Bureau Veritas India Private Limited, Noida. b) Mr Rohinton R. Engineer, M/s Industrial Boilers Limited, Nehru Place, New Delhi. c) Mr Tarun Kumar, Engineers India Limited, New Delhi. d) Mr B. K. Sreedhar, Indira Gandhi Centre for Atomic Research, Kalpakkam. e) Mr Lakshmana Rao, M/s Tata Consulting Engineers Limited, Navi Mumbai. f) Mr Karthik T, M/s L&T-Sargent & Lundy Limited, Vadodara. <p>The Committee decided to update the Convenership of Panel 05 to Mr ESG Pragasam, M/s India Sugar and General Engineering Corporation, Noida.</p> <p>The Committee requested MS to incorporate comments received in Panel 05 till date in word format and circulate the same to Panel 05 members by the end of Dec, 2023.</p> <p>The Committee directed Panel 05 to hold a physical meeting in Delhi in Jan, 2023 to finalise the comments</p>	<p>As decided during the last meeting, the Convenership of Panel (P-5) has been updated.</p> <p>Word copy of IS 2825 is attached.</p> <div style="text-align: center;">  IS 2825.docx </div> <p>Panel meetings could not be conducted in the month of Jan 2024.</p> <p>The Committee may kindly note and decide.</p>

		<p>received. The Panel will provide a deadline for the project during this meeting.</p> <p><u>Background</u></p> <p>Steel manufacturers as listed were invited to the 5th meeting of Panel 05 dated 10 Feb 2023. It was decided to keep them in the invitee list for future meetings, wherever required.</p> <p>06 meetings were held for Panel 05 in 2023. The panel has not been able to provide the revised draft of IS 2825. In the last meeting of Panel 05 held on 27 Oct 2023. Mr ESG Pragasam expressed interest to lead the work of the panel for providing the revised draft.</p> <p>The Committee decided to expand the panel 05 by adding following members:</p> <p>(i) M/s L&T, Quality Assurance Head, Hazira (ii) M/s JSPL, Raipur (iii) M/s SAIL, Bhilai (iv) M/s Tata Steel, R&D Team,</p> <p>The Committee provided a four month time for the panel to revise IS 2825.</p> <p>Convener of the panel, Mr Ajay Hantodkar, M/s TBWES informed the Committee that Steel manufacturers have already done some work with Jindal and Tata and SAIL. All other chapters of IS 2825 are ready except material. He sought May 2024 timeline to finalise the panel work.</p>	
2.	6.1, sl no 2	<p><u>Review of Standards for feedback</u></p> <p>(a), (b), (c), (d), (e), (h) Action complete.</p> <p>(f), (g) (IS 13445 Part 1 & Part 2) The Committee requested MS to incorporate comments received till date in word format and circulate the same to Committee members. The Committee to decide on the revision of these documents in the next meeting.</p> <p>(i) The Committee decided to withdraw IS 13619 : 1993 Industrial steam and hot water boiler plants – Maintaining log and summary sheets – Recommendations.</p>	Please see Item no. 5 for details.

(j) The Committee decided to circulate the comments from BEE on IS 13979 : 1994 'Method of calculation of efficiency of packaged steam boilers' to all members to seek their opinion. If no comments are received, the document will not be changed.

Mr Lokesh Chaudhary and Mr Rohinton Engineer requested to send to him IS 13979 along with comments from M/s BEE.

(k) The Committee decided to update IS 13980 : 1995 Acceptance tests on industrial boilers – Code of practice as per editorial updates. No technical change required.

(l) The Committee decided to make no changes to IS 15685 : 2006 Purchaser's data sheet for power boiler, including no editorial revision as it is not a Pre-2000 standard.

Previous Meeting:

(f), (g), (i), (j), (k), (l) Reminder has been sent to ESG Pragasam, M/s India Sugar and General Engineering Corporation and Mr Lakshmana Rao V., M/s Tata Consulting Engineers Limited, Navi Mumbai dated 13 Feb 2023.

[20230223 MED01 ITEM2.1 SL2 Response from ESP.pdf](#)

[Email-27 Mar 2023 IS 13445-P1-P2-](#)

[ESG Pragasam.pdf](#)

[IS 13445 Part 1 1992-ESG Pragasam.pdf](#)

[IS 13445 Part 2 1992-ESG Pragasam.pdf](#)

[20221102 MED01 IS13445 PART 1 DRAFT 0.1.docx](#)

[20221102 MED01 IS 13447 Part 2 DRAFT 0.1.docx](#)

[Email-09 May 2023 Lakshman.pdf](#)

[IS 13445 Part 1 1992 -Lakshman.pdf](#)

[IS 13445 Part 2 1992-Lakshman.pdf](#)

(f), (g) Comments received from Mr ESG Pragasam, M/s India Sugar and General Engineering Corporation and Mr Lakshmana Rao V., M/s Tata Consulting Engineers Limited, Navi Mumbai dated 27 Mar 2023 and 09 May 2023, respectively.

		<p>(i) Mr Lakshmana Rao V., M/s Tata Consulting Engineers Limited, Navi Mumbai recommended withdrawal of IS 13619.</p> <p>(j) Additionally, IS 13979 was sent to BEE for their comments on its revision. The comments received dated 14 Sep 2023. Email-14 Sep 2023 Pravatanalini BEE.pdf</p> <p>IS 13979.docx</p> <p>(k), (l) Mr Lakshmana Rao V., M/s Tata Consulting Engineers Limited, Navi Mumbai confirmed no comments from M/s TCE.</p>	
3.	0.4.4	<p>The Committee decided to take up merging of IS 4049 (Part 1) : 1988, Specification for formed ends for tanks and pressure vessels: Part 1 based on outside diameter (Second Revision) and IS 4049 (Part 2) : 1996, Formed ends for tanks and pressure vessels - Specification: Part 2 inside diameter basis (First Revision) after its publication.</p> <p><u>Background</u></p> <p>BIS management has decided to identify standards of similar nature having overlapping or duplicate content and to merge such standards into a single standard.</p> <p>The Committee may consider to merge IS 4049 (Part 1) Specification for formed ends for tanks and pressure vessels: Part 1 based on outside diameter and IS 4049 (Part 2) Formed ends for tanks and pressure vessels - Specification: Part 2 inside diameter basis following this principle.</p>	<p>Both the standards have been already taken up for revision and are currently under print.</p> <p>The Committee may kindly note and decide.</p>
4.	0.10	<p>Standardisation Cells in Industry Associations</p> <p>The Committee decided to send a reminder to Shri Lokesh Manohar Chaudhary, M/s Indian Boilers Manufacturers Association, Mumbai (IBMA) for creation of the Standardisation Cell.</p> <p><u>Background</u></p> <p>BIS has formed a provision for creating Standardisation Cells in Industry Association to enable a consistent two way dialogue between BIS and Industry Association on the</p>	<p>An email dated 10 April 2024 was sent to Shri Lokesh Manohar Chaudhary, M/s Indian Boilers Manufacturers Association, Mumbai (IBMA) for creation of the Standardisation Cell.</p>

		<p>requirements of Industry Associations with respect to corresponding standards within their sectors. In MED 01, following is the status of Standardisation Cells:</p> <table border="1"> <thead> <tr> <th>SI No.</th> <th>Member</th> <th>Status</th> <th>Invitation Letter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Indian Boilers Manufacturers Association, Mumbai (IBMA)</td> <td>Not Created</td> <td> Email-IBMA-25 Oct 2023.pdf Training Schedule Faculty 31 Oct.docx (1).pdf REINFORCEMENT TRAINING FOR STANDARDIZATION CELL OF INDUSTRY ASSOCIATIONS 0001 (1).pdf Steps for using Stnd cell (1) (1).pdf </td> </tr> </tbody> </table>	SI No.	Member	Status	Invitation Letter	1	Indian Boilers Manufacturers Association, Mumbai (IBMA)	Not Created	Email-IBMA-25 Oct 2023.pdf Training Schedule Faculty 31 Oct.docx (1).pdf REINFORCEMENT TRAINING FOR STANDARDIZATION CELL OF INDUSTRY ASSOCIATIONS 0001 (1).pdf Steps for using Stnd cell (1) (1).pdf	<p>However, no response has been received.</p> <p>The Committee may kindly discuss and decide.</p>
SI No.	Member	Status	Invitation Letter								
1	Indian Boilers Manufacturers Association, Mumbai (IBMA)	Not Created	Email-IBMA-25 Oct 2023.pdf Training Schedule Faculty 31 Oct.docx (1).pdf REINFORCEMENT TRAINING FOR STANDARDIZATION CELL OF INDUSTRY ASSOCIATIONS 0001 (1).pdf Steps for using Stnd cell (1) (1).pdf								
5.	5.4, SI no 1 & 3	<p>During the last meeting, the Committee discussed the comments received from Mr ESG Pragasam, M/s India Sugar and General Engineering Corporation, Noida, (ISGEC) and Mr Sumit Roy, M/s Regional Labour Institute, Faridabad on IS 10123 ‘Data sheet for shell and tube type heat exchangers’. The Committee decided to drop the draft document no. MED/01/22042 and decided to withdraw the standard. The Committee decided to take up revision of the Datasheet as part of revision of IS 4503:1967, Specification for shell and tube type heat exchangers.</p> <p>Further, the Committee decided to send IS 4503:1967, Specification for shell and tube type heat exchangers in word and PDF format to Mr Lakshmana Rao, M/s Tata Consulting Engineers Limited, Navi Mumbai and Mr Tarun Kumar, M/s Engineers India Limited, New Delhi to review the existing standard and provide revised draft with changes highlighted in word file. The revised draft is to be discussed in the next meeting.</p>	<p>As decided, the editable copy of IS 4503 along with a copy of IS 10123 was circulated among the Mr Lakshmana Rao, M/s Tata Consulting Engineers Limited, Navi Mumbai and Mr Tarun Kumar, M/s Engineers India Limited, New Delhi seeking their views/comments.</p> <p>However, inputs are still awaited.</p> <p>The Committee may kindly note and decide.</p>								
6.	5.4.1, SI No. 1	<p>The Committee decided to circulate IS 10470 : 1983, Specification for air cooled heat exchangers to committee members for review and provide their comments for revising the standard within one month. Comments from Mr Sumit Roy, M/s Regional Labour Institute, Faridabad to be circulated along with. The document to be discussed in the next meeting.</p>	<p>As decided, the editable copy of IS 10470 was circulated to Mr Sumit Roy, M/s Regional Labour Institute, Faridabad seeking their views/comments.</p>								

			<p>However, inputs are still awaited. Further, it may be also noted that this standard has been also allocated to Shri Chirag Jain, NIT Bhopal for review under internship program of BIS.</p> <p>The Committee may kindly note and decide.</p>
7.	<p>Item 3, Sl no. 3.2.1</p>	<p>Solar Powered Hybrid Boilers</p> <p>The Committee appreciated the report of internship presented by Mr Aman De Sarkar from NIT, Calicut on the subject Solar Powered Hybrid Boilers. The Committee discussed the possibility of developing a new standard or modifying an existing standard for integrating solar power as a source of energy for boilers. The Committee also discussed the possibility of solar powered boilers application on large marine vessels. The Committee formulated a panel for further discussion on formulation of a draft standard as well as Terms of Reference for R&D Project on the same subject:</p> <p>a) Mr Rohinton R. Engineer, Industrial Boilers Limited, Nehru Place, New Delhi (Convener)</p> <p>b) Mr Lakshmana Rao, Tata Consulting Engineers Limited, Navi Mumbai</p> <p>c) Mr Karthik T, L&T-Sargent & Lundy Limited, Vadodara</p> <p>d) Mr Rahul T. Bhat, Indian Register of Shipping, Mumbai</p> <p>e) Mr Lokesh Manohar Chaudhary, Indian Boilers Manufacturers Association, Mumbai</p> <p>f) Mr Sathyan V, Bharat Petroleum Corporation Limited, Mumbai</p> <p>g) Mr Aman De Sarkar, Intern, BIS</p> <p>h) Member Secretary, Bureau of Indian Standards (MS)</p> <p><u>Background:</u></p>	<p>No Panel meetings have been conducted till date.</p> <p>The Committee may kindly note and decide.</p>

		<p>Mohd. Zakaria Khan, Technical Advisor (Boilers) [Ex-Chairperson] while taking stock of work of the Committee from Member Secretary suggested that an emerging area under subject Solar Powered Hybrid Boilers could be considered for taking up for formulation of a new Indian Standard.</p> <p>Also, the same subject was provided to an intern from Mr Aman De Sarkar, NIT Calicut undergoing internship at BIS for preparing a standardisation report.</p>	
8.	<p>Item 3, Sl no. 3.2.2</p>	<p>Pressure vessels for storage/transport of Green Hydrogen</p> <p>The Committee appreciated the report of internship presented by Mr Hemant Naresh Sadawana from IIT Roorkee on the subject <i>Pressure vessels for storage/transport of Green Hydrogen</i>. The Committee formulated a panel for further discussion on formulation of a draft standard as well as Terms of Reference for R&D Project on the same subject:</p> <ul style="list-style-type: none"> a) Mr Lakshmana Rao, Tata Consulting Engineers Limited, Navi Mumbai (Convener) b) Mr Tarun Kumar, Engineers India Limited, New Delhi c) Mr Naba Kumar Baishya, Oil Industry Safety Directorate, Noida d) Mr Sathyan V, Bharat Petroleum Corporation Limited, Mumbai e) Mr Hemant Naresh Sadawana, Intern, BIS f) Member Secretary, Bureau of Indian Standards (MS) <p><u>Background</u></p> <p>This subject was received from the Ministry of New and Renewable Energy under National Green Hydrogen Mission for consideration of formulation/adoption of an Indian Standard on the subject.</p> <p>Email TED 12 JUL 2023 PRASOON SIR MAIL.pdf C-01 Letter from Secreatry MNRE.pdf C-02 Email - DO Letter from Secretary MNRE.pdf C-03 e-office File.pdf</p>	<p>No Panel meetings have been conducted till date.</p> <p>The Committee may kindly note and decide.</p>

		Also, the same subject was provided to an intern from Mr Hemant Naresh Sadawana, IIT Roorkee undergoing internship at BIS for preparing a standardisation report.	
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* Item no refers to the proceedings of the previous meeting.

ITEM 4 DOCUMENTS UNDER PUBLICATION/PRINT

Following standards/documents are currently under publication:

Sl No.	Document Number	IS Number	Document Title	Document Stage	Remarks
1)	MED/01/22048 IS 4049 (Part 1):1988	IS 4049 (Part 1):1988	Formed Ends for Tanks and Pressure Vessels - Specification Part 1 Based on Outside Diameter (<i>Third Revision</i>)	Ready for Gazette	Under Print
2)	MED/01/17402 IS 8753: 1977	IS 8753: 1977	Code for Acceptance Tests on Stationary Steam Generators of the Power Station Type (<i>First Revision</i>)	PDF Sent To Publication Department	Under Print
3)	MED/01/22049 IS 4049 (Part 2):1996	IS 4049 (Part 2):1996	Formed ends for tanks and pressure vessels Part 2 Based on inside diameter - Specification (<i>Second Revision</i>)	Ready for Gazette	Under Print

The Committee may please note.

ITEM 5 REVIEW OF PUBLISHED INDIAN STANDARDS

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

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

***Archiving of Standards:** In cases where the standard is due for review and the Committee feels the standard is not to be revised due to reason either *there is no latest development in the standard*

or *Committee composition doesn't have requisite expertise to decide on the subject matter*; then, the document is to be decided for **Reaffirm and Archive**.

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

Following standards are due for review in the financial year 2024-25:






SI No.	IS No.	Title	Reaffirmation Details	# Amds	Remarks
1.	IS 13619 : 1993	Industrial steam and hot water boiler plants - Maintaining of log and summary sheets - Recommendations	April, 2019	-	Pls see Item no 3, SI No. 2 (i) (Decision to withdraw)
2.	IS 13979 : 1994	Method of calculation of efficiency of packaged steam boilers	April, 2019	-	Pls see Item no 3, SI No. 2 (j)
3.	IS 13980 : 1995	Acceptance tests on industrial boilers - Code of practice	April, 2019	-	Pls see Item no 3, SI No. 2 (k)



The Committee may please note & decide.

ITEM 6 PRE-2000 DOCUMENTS UNDER REVIEW BY TECHNICAL DEPARTMENT

BIS management has decided to review and revise the old standards which are pre-2000 and requested the relevant technical committees to take up the revision of the standard. As on date, MED 01 has following pre-2000 standards which are yet to be reviewed:

SI No.	IS No.	IS Title	Reaffirmation Details	Degree of Equivalence	Remarks
1	IS 2825 : 1969	Code for unfired pressure vessels	February, 2022	Indigenous	Pls see SI No. 1

2	IS 4503 : 1967	Specification for shell and tube type heat exchangers	September, 2018	Indigenous	 IS 4503_Kundan (1).docx Pls see Item No 3, SI no 5
3	IS 13979 : 1994	Method of calculation of efficiency of packaged steam boilers	April, 2019	Indigenous	 IS 13979.docx Pls see Item no 3, SI No. 2 (j)
4	IS 10470 : 1983	Specification for air cooled heat exchangers	July, 2020	Indigenous	 IS 10470 (NEW).docx Pls see Item No 3, SI no 6
5	IS 13619: 1993	Industrial steam and hot water boiler plants - Maintaining of log and summary sheets - Recommendations	April, 2019	Indigenous	Pls see Item no 3, SI No. 2 (i) (Decision to withdraw)
6	IS 13980 : 1995	Acceptance tests on industrial boilers - Code of practice	April, 2019	Indigenous	Pls see Item no 3, SI No. 2 (k)
7	IS 13445-1:1992	Suppliers Data Sheet for Industrial Water Tube Boilers: Part 1 Proposed Stage	February, 2022	Indigenous	 MED 01 (IS 13445 P1)WC.docx Pls see Item no 3, SI No. 2 (f)
8	IS 13445-2:1992	Suppliers Data Sheet for Industrial Water Tube Boilers: Part 2 Post Order Stage	February, 2022	Indigenous	 MED 01 (IS 13445 P2)WC.docx Pls see Item

					no 3, SI No. 2 (g)
9.	IS 8596 : 1977	Recommended parameters of stationary steam boilers	February, 2022	Indigenous	Pls see Item no 3, SI No. 2 (a)
10.	IS 9330 : 1979	Terminology for parameters of waste heat boilers and boilers for special purposes	February, 2022		 IS 9330 MED 01 NK WC NEW 4.docx Pls see Item no 3, SI No. 2 (c)
11.	IS 9332 : 1979	Recommended parameters of waste heat boilers and boilers for special purposes	February, 2022		 IS 9332.docx Pls see Item no 3, SI No. 2 (c)
				Indigenous	

The Committee may kindly note and discuss.

ITEM 7 POSITION OF WORK

BIS Management is very much concerned about revision of Standards based on latest technology and their utilization by concerned stakeholders. It has been observed that many standards have been published long back and there is no change in the specification through amendment/revision. It is not known whether these standards are being used by anyone. Therefore, technical Committee is requested to examine whether these standards may be withdrawn if they cover either obsolete technology or are not used in the country. Accordingly, programme of work of the MED 01 is enclosed below:



pow_289_2024-05-1
3.pdf

Also, standards of MED 01 can also be accessed through the following link:

https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/pow_details

The Committee may kindly note.

ITEM 8 SELECTIONS OF SUBJECTS

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

- i) Whether the subject is financed by the proposer;
- ii) Sale ability of the standard;
- iii) Standards shall be user friendly; and
- iv) Social needs with regards to safety, health and environment.

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

[Annex B](#)

During the last meeting, the Committee constituted a panel which will be responsible for carrying out activity to identify Emerging Areas as well as Gap Analysis in existing standards:

- a) Mr Lakshmana Rao, Tata Consulting Engineers Limited, Navi Mumbai (Convener)
- b) Mr Karthik T, L&T-Sargent & Lundy Limited, Vadodara
- c) Mr ESG Prasagasam, India Sugar and General Engineering Corporation, Noida
- d) Mr Vivek Gangwar, NTPC Limited, New Delhi
- e) Member Secretary, Bureau of Indian Standards (MS)

The Committee may kindly note.

ITEM 9 STANDARDS WITH RESEARCH

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

BIS has published new guidelines for supporting R&D projects for generating the empirical data which support the evidence based formulation/revision of Indian Standards.

[R&D Guidelines 090923.pdf](#)

The Committee may identify relevant stakeholders who can submit the empirical data during the process of formulation or revision of Indian Standards.

Further, it is informed that proposals for carrying out R&D work on IS 2825 & IS 4503 were put up to the relevant evaluation committee in BIS. After technical and financial evaluation, the R&D projects have been allocated as follows:

(A) Study of latest technological developments and practices in the life cycle of shell and tube type heat exchangers (IS 4503) - **Dr Vikas J. Lakhera Institute of Technology, Nirma University**

(B) Study of latest technological developments and practices in the life cycle of Unfired Pressure Vessels (IS 2825) - **Dr Tapas Bajpai, MNIT Jaipur**

During last meeting, the Committee requested Shri Rahut Bhat, M/s IRS to provide Terms of References for R&D for formulation of draft standard on Pressure Vessels for Human Occupancy for consideration of the Committee within one month. The format for ToR to be provided to the member by the Member Secretary.

TOR is still awaited from Shri Rahut Bhat, M/s IRS,

The Committee may kindly note and decide.

ITEM 10 INTERNATIONAL ACTIVITY

10.1 India is having membership on following ISO Committees related to MED 01:

ISO Committees:

TC Committee	Title	Member
ISO TC 11	Boilers & Pressure Vessels	'P' Member

The Committee may kindly note.

10.2 The list of ISO Standards published by ISO/TC 11 are given as below: The Committee may review ISO Standards published and identify the Standards for possible adoption as Indian Standards or inputs can be drawn for revising the existing Indian Standards.

<https://www.iso.org/committee/46156/x/catalogue/p/1/u/0/w/0/d/0>

The Committee may kindly note and discuss.

10.3 Recently, it has been decided by ISO/TMB to reactivate ISO/TC 11 which was earlier on stand-by mode. As per request received from ISO/TC 11 secretariat regarding the nomination of experts, an email dated 01 April 2024 was circulated to all the members for getting themselves nominated as experts in ISO/TC 11 & its working groups for contribution in International Standardization work.



Email_call for
nomination.pdf

Following's members have shown their interest:

- (A) Shri Karthik T., L&T Sargent & Lundy Limited, Vadodara
- (B) Shri Kishor Pandurang Dongare, M/s Thermax Ltd, Pune
- (C) Shri Jayvant G. Pingale, M/s Godrej & Boyce Manufacturing Company Limited, Mumbai

The Committee may kindly discuss and approve the above nominations.

ITEM 11 RECENT INITIATIVES IN THE STANDARD DEVELOPMENT PROCESS OF BIS

In the recent months, several initiatives have been undertaken to reform the standard making process in BIS with the aim to make the delivery mechanism in tune with the National needs and aspirations. These initiatives are both process initiatives as well as technical initiatives. Some of the important initiatives are:

11.1 Green Initiative by BIS

As part of 'Green Initiative' to conserve resources, the Bureau of Indian Standards (BIS) has decided to communicate with all the technical committee members only through electronic media. From 01 January 2014 onwards, the meeting notice, agenda, minutes of all technical committee meetings of BIS and other documents associated with technical committee work, such as P-drafts, WC-drafts etc. are being sent in Electronic Form only at the email addresses provided by the technical committee members. No printed documents of any kind shall thereafter be sent to the technical committee members. It may be noted that the activities of sectional committees namely, Programme of work, Composition of sectional committees, Draft standards in circulation, etc. are also available on www.bis.gov.in. Further, formats for comments on drafts and also proposals for new work items are available on the BIS website. Members are encouraged to visit BIS website on a periodical basis to be acquainted with the latest status in standards development process.

The Committee may please note.

11.2 Interaction with SDO

A number of Standards Developing Organizations (SDOs) under various Govt. Departments exist which cater to the needs of specific sectors by developing standards. It has been identified that an effort may be made to adopt such standards developed by these SDOs as Indian Standards so as to avoid duplication of work. Further these standards will also be upgraded as Indian Standards.

The Committee may please note.

11.3 Training of Committee Members

BIS Management has decided to organise a two-day residential training programme for Committee members for making them familiar with BIS working, drafting of standards etc. A brief overview is given at **Annex-C**.

[ANNEX-C](#)

The Committee may please note.

ITEM 12 GUIDELINES FOR MEMBERS OF TECHNICAL COMMITTEES

The Committee may please note the following Guidelines provided by Competent Authority of BIS for implementation:

- a) Identification and involvement of talent available in the country related to the subject dealt by the committee and methodology to involve them in the proceedings of the Committee,
- b) Status of standardisation in the areas dealt by the committee at international level and suggestions for improving participation in the related committees of ISO/IEC, and
- c) Future plans and strategies to be adopted by the committee during the next 05 years aiming at contribution in related standardisation activity at national and international level.
- d) BIS has formulated Guidelines for Funding R&D Projects for Establishment and Revision of Indian Standards, Special Publications and Handbooks for Small R&D Projects & Large R&D Projects for the purpose of Research & Development (R&D) projects for formulation/revision/amendment of Standards. A brief overview is given at **Annex-D**.

[ANNEX-D](#)

The Committee may please note.

ITEM 13 GUIDELINES FOR INTENSIFYING PARTICIPATION OF STAKEHOLDERS IN BIS TECHNICAL COMMITTEE MEETING

Guidelines for payment of TA/DA to members of BIS Technical Committees under BIS Funds are shown in **Annex-E**.

[ANNEX-E](#)

The Committee may please note.

ITEM 14 SUSTAINABILITY PERSPECTIVE IN INDIAN STANDARDS

- a) In keeping with India's commitment on the UN SDG 2030 and Paris Agreement on Climate Action, there will be specific focus in developing and updating standards so as to address these issues. Climate change mitigation and adaptation through reduction in carbon emissions, carbon

foot-printing and life cycle analysis, carbon capture and storage, application of circular economy, ensuring resource efficiency, promoting alternative fuel technologies and renewable energy use, reducing embodied energy and improving thermal performance in buildings through building design and construction, etc would be some of the approaches/considerations in standards development.

- b)** A framework that can provide guidance to the technical committees on how sustainability issues are to be addressed in Indian Standards would be developed. Some of the UN SDGs that are considered to be important from standardisation perspective are Climate Action (SDG 13), Good Health and Wellbeing (SDG 3), Gender Equality (SDG 5), Clean Water and Sanitation (SDG 6), Affordable and Clean Energy (SDG 7), Responsible Consumption and Production (SDG 12), Industry, Innovation and Infrastructure (SDG 9) and Sustainable Cities and Communities (SDG 11), and are considered as high priority areas of work. A broad range of aspects that could potentially help in addressing sustainability and climate change through standards include the use of natural resources, ensuring energy efficiency and water efficiency, reducing wastes, use of waste and recyclable materials, reducing pollution in land, air and water, protection of natural habitats, protection of biodiversity, carbon neutrality and net-zero, carbon foot-printing and LCA, application of technology and innovation around these issues, economic performance and development, addressing health and safety, social equity (including concerns like gender responsiveness and accessibility for persons with disabilities and the elderly), quality of life, etc.

The committee may please note.

ITEM 15 DATE AND PLACE FOR THE NEXT MEETING

ITEM 16 ANY OTHER BUSINESS

ANNEX A

(Item 2.2.1)

Composition of Boilers and Pressure Vessels Sectional Committee, MED 01

Sl No	Organisation Represented	Member Details	24 th	25 th	26 th	Total
1.	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	Shri Sandeep Sadanand Kumbhar (<i>Chairperson</i>)	NA	NA	NA	0/0
2.	Bharat Heavy Electrical Limited, New Delhi	Shri S. Subba Rao Shri Bhargav (Alt) Shri G. Vimalan (Alt)	N	N	N	0/3
3.	Bharat Heavy Electricals Limited, Project Engineering Management, Noida	Shri Utkarsh Gogia (YP)	NA	N	N	0/2
4.	Bharat Heavy Electricals Limited, Haridwar	Shri Rahul Kumar Chandra (Alt)	Y	Y	Y	3/3
5.	Bharat Heavy Electricals Limited, Tiruchirappalli	Shri Enaganti murthunjoy Shri Rudrabhatla Sai Kumar (Alt)	N	N	Y	1/3
6.	Bharat Petroleum Corporation Limited, Mumbai	Shri K. Rajashekar Shri Sathyan V. (Alt)	Y	Y	Y	3/3
7.	Bureau Veritas India Private Limited, Noida	Shri Ranjit D. Naik Shri T. R. Subramanian (Alt)	N	Y	Y	2/3
8.	Bureau of Energy Efficiency, New Delhi	Ms Pravatanalini Samal Shri Priyaranjan (Alt) Shri Kamran Shaikh (Alt)	N	Y	Y	2/3
9.	CSIR - Central Mechanical Engineering Research Institute, Durgapur	Dr Atanu Saha Shri Kamal Kishor J. Uke (Alt)	Y	Y	Y	3/3
10.	Central Electricity Authority, New Delhi	Shri Prabhjot Singh Sahi Shri Jugal Kishor (Alt)	N	N	N	0/3
11.	DNV Business Assurance India Pvt. Ltd., Mumbai	Shri Shankar Shivaratri Shri Pramod Chabbi (Alt)	NA	N	Y	1/2
12.	Directorate General Factory Advice Service and Labour Institutes, Mumbai	Shri Sumit Roy Shri Amit Gola (Alt)	Y	Y	Y	3/3

13.	Engineers India Limited, New Delhi	Mr. Shri Tarun Kumar Shri PVS Satyanarayana (Alt)	Y	Y	Y	3/3
14.	GE Power India Limited (Alstom Project India Limited), Noida	Shri M. Anandhan Shri Veermani S (Alt) Shri Aajay Joshua (Alt)	N	N	N	0/3
15.	Godrej & Boyce Manufacturing Company Limited, Mumbai	Shri Vasudev P. Sheno Shri Jayvant G. Pingale (Alt)	N	N	N	0/3
16.	Hindustan Petroleum Corporation Limited, Mumbai	Shri . Y. Sriramulu Shri Mutnury Somasunder (Alt)	N	N	N	0/3
17.	India Sugar and General Engineering Corporation, Noida	Shri J. Rajavel Shri ESG Pragasam (Alt)	N	Y	Y	2/3
18.	Indian Boilers Manufacturers Association, Mumbai	Shri Lokesh Manohar Chaudhary	NA	Y	Y	2/2
19.	Indian Institute of Technology Delhi, New Delhi	Prof. Naresh V. Datla Prof. K. Rama Krishna (Alt)	NA	Y	N	1/2
20.	Indian Oil Corporation Limited, Mumbai	Shri YVNMR Trinadh	N	N	Y	1/3
21.	Indian Register of Shipping, Mumbai	Shri Rahul T. Bhat Shri Siddhesh Prabhu (Alt)	Y	Y	Y	3/3
22.	Indira Gandhi Centre for Atomic Research, Kalpakkam	Dr B. K. Sreedhar Shri V. Vinod (Alt)	N	Y	N	1/3
23.	Industrial Boilers Limited, Nehru Place, New Delhi	Shri Cyrus R. Engineer Shri R. R. Engineer (Alt)	N	Y	Y	2/3
24.	L&T-Sargent & Lundy Limited, Vadodara	Shri Yogendra D Mishra Shri Karthik T. (Alt) Shri Sanket Chaudhari (YP)	Y	Y	Y	3/3
25.	Larsen and Toubro Limited, Mumbai	Shri Girish Y. Savant Shri M. Venkatesh (Alt)	N	N	N	0/3
26.	Lloyd Register Asia, Mumbai	Shri Thirumal Valavan Shri Gurvinder Singh Saini (YP)	N	Y	Y	2/3
27.	MECON Limited, Ranchi	Shri Gurnek Singh Shri Abhay Kumar (Alt)	N	N	N	0/3
28.	NTPC Limited, New Delhi	Shri Anubhav Dahiya Shri Vivek Gangwar (Alt)	NA	Y	Y	2/2
29.	Oil Industry Safety Directorate, Noida	Shri Naba Kumar Baishya Shri Shivendra Singh Parihar (Alt)	NA	Y	Y	2/2
30.	Petroleum and Explosives Safety Organisation, Nagpur	Shri Basudev Basak Shri Prashant Yadav (Alt)	NA	N	N	0/2
31.	Projects and Development India Limited, Noida	SH Y. K. Gautam Shri. Rajeev Ranjan Kumar (Alt)	Y	Y	Y	3/3
32.	Reliance India Limited, Mumbai	Shri Sanjiv Prasad	Y	Y	Y	3/3

33.	Tata Consulting Engineers Limited, Navi Mumbai	Shri Lakshmana Rao V Shri R Raghavanem (Alt)	Y	Y	Y	3/3
34.	Tata Steel Limited, Kolkata	Shri Braj B. Prasad Shri Pradip Chakraborty (Alt)	Y	Y	Y	3/3
35.	Tema India Limited, Mumbai	Shri Parikshit Padture	NA	Y	N	1/2
36.	Thermax Limited, Pune	Shri Ajay Hantodkar Shri Sachin Shivaji Mulik (Alt) Shri Kishor Pandurang Dongare (YP) Shri Nirav Shah (YP)	N	Y	Y	2/3
37.	Welding Research Institute, Tiruchirappalli	Dr. B. Shanmugarajan Shri K. Ganesh Kumar (Alt)	N	Y	Y	2/3