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**भारतीय मानक ब्‍यूरो**

**BUREAU OF INDIAN STANDARDS**

**AGENDA**

|  |  |  |  |
| --- | --- | --- | --- |
| **Committee** | **Date & Day** | **Time** | **Place** |
| **28th meeting of** **Chemical Engineering Plants and Related Equipment Sectional Committee, MED 17** | **10 December 2024,**  **Tuesday** | **1100 hrs onwards** | **Video Conferencing through WEBEX** |

**CHAIRPERSON:** Dr Mritunjay Kumar Shukla, Head (Engineering Services Division), CSIR - Indian Institute of Petroleum, Dehradun

**MEMBER SECRETARY:** Ms Neha Thakur, Sc.C/Deputy Director, MED, BIS

**Item 0 WELCOME AND OPENING REMARKS**

**0.1** Welcome & Opening remarks by Head (Mechanical Engineering Department)

**0.2** Welcome & Opening remarks by the Chairperson.

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

The Minutes of the **27th** Meeting of Chemical Engineering Plants and related equipment Sectional Committee, MED 17, held on 23 Sep 2024 via virtual mode (WEBEX) was circulated to members vide letter having Ref: MED 17/A-2.27, dated 24 September 2024.

No comment has been received on the minutes of the meeting.

The Committee may **CONSIDER** and **CONFIRM** the minutes of the meeting.

**Item 2 SCOPE AND COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1 Scope and Liaison**

Formulation of Standards for various equipment used in the chemical industry including: (a) Static equipment; (b) Rotating equipment; (c) Instrumentation and automation; and (d) Fittings and valves etc.

*Liaison*:

ISO/TC 112 Vacuum Technology (P)

ISO/TC 153 Valves (P)

ISO/TC 270 Plastic and Rubber Machines (P)

**2.2 Composition of the Committee**

**2.2.1** The composition of the Sectional Committee as last reviewed is given in **Annex 1**. The members may **REVIEW** nominationsfrom their respective organization and **UPDATE**, if there is change by submitting revised nomination form and Declaration at Item 2.2.3.

Active participation letters have been sent to following members: TCE, EIL, L&T Valves, Chemtrols, PDIL and Auma India Ltd.

Shri Dhawal Saxena, CEO & CTO, Bhumistha Infra Services has submitted his revised nomination from M/s Bhumistha Infra Services. The Committee may **CONSIDER** and **APPROVE** the nomination.

**2.2.2** New Co-option request letters have been sent to following organizations:

**a)** **Hindustan Petroleum Corporation Ltd** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**b) Indian Oil Corporation Ltd** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**c) ABB (ABB India Limited)** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**d) L&T Hydrocarbon Hazira** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**e) ISGEC Heavy Engineering Ltd.** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**f) Godrej Industries Ltd** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

**g)** **Zetwerk**  – Fresh letter of co-option has been sent through speed post on 29 November 2024. Nomination is awaited.

**h) WAPCOS Limited** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited.

The Committee may **CONSIDER** and **DECIDE**.

**2.2.3** With reference to the BIS office order ref. no.: PNC09/18/2023-PNC-BIS dated 06 September 2023, all members of Technical Committees have to sign and sent back the declaration (attached here), mandatorily.

 

Committee members are kindly requested to provide the signed declaration as above to BIS.

**2.2.4** Committee is referred to letter ref. no. PNC09/18/2023-PNC-BIS dated 09 November 2023 by DG BIS (attached here).

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**2.2.5** Extracts from the Standards Formulation Manual of BIS regarding the guidelines for participation in the technical committee work of BIS are given in **Annex 2.**

**2.2.6** As per the BIS guidelines, committees should represent all interest groups such as organized consumers/users, industry, technologists 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 a 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.

**2.2.7 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:

(i) strengthening the use of standards and technical regulations as powerful tools to attain SDG 5 (Achieve Gender Equality and Empower all Women and Girls);

(ii) integrating a gender lens in the development of both standards and technical regulations; and

(iii) elaborating gender indicators and criteria that could be used in standards development.

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

* Gender-responsive standards;
* Gender balance at all levels in all Committees including leadership positions;
* Enhanced expertise to create and deliver gender inclusivity;

The Committees is **REQUESTED** to work in tandem with these aims to create a gender balanced environment in all walks of life through standards.

**2.2.8 Requests for Nomination to Committee/ Sub-Committee/ Panel/ Working group**

Request for nomination to MED 17 have been received from the following organizations:

a) Shri Mohan Babu Yarlagadda, Joint Chief Inspector of Factories, Government of Telangana (Factories Department)

b) Shri Pinkesh Patel, Assistant General Manager, L&T-Sargent & Lundy Limited, Vadodara

c) Shri Satish Subhash Gaikwad, Manager, Bhama Organic Pvt. Ltd

d) Shri Sukalp Lamture, Process Engineer, Hikal Limited

e) Shri Bahadur Shah Sheik, Proprieter, Uneo Techsol

f) Shri Shivashish Pandey, Assistant Engineer B, DCM Shriram Limited, Delhi

g) Shri Hardeep Singh, Development Engineer, Kartar Valves Pvt. Ltd.

h) Shri Nanda Kishore Babu, In Personal Capacity; and

j) Shri Hardeep Singh, In Personal Capacity.

The stakeholder categorization of MED 17 is as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Type of Stakeholder** | **Number** | **Percentage** | **Vacancy** |
|  | Manufacturer | 10 | 52.63% | 00 |
|  | Manufacturer’s association | 01 | 5.26% | 01 |
|  | Consumer organization | 02 | 10.52% | 02 |
|  | Academia | 01 | 5.26% | 01 |
|  | Ministry/ Central/ State Govt. bodies | 01 | 5.26% | 01 |
|  | Regulatory Body | **00** | **00%** | **01** |
|  | Technologist | 04 | 21.05% | 00 |
|  | Individual Experts | **00** | **00%** | **02** |

The Committee may **CONSIDER** and **DECIDE**.

**ITEM 3** **STANDARDS NATIONAL ACTION PLAN** **(SNAP) 2022-2027**



The Committee may **NOTE**.

**ITEM 4 ANNUAL MEETING PLAN FOR THE YEAR 2024-25**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl No. | Technical committee | Tentative date for Sectional Committee Meetings | | | |
| 1 | MED 17 | 28 June 2024 | 23 September 2024 | 10 December 2024 | 12 February 2025 |

**ITEM 5 ACTIONS ARISING OUT OF THE PREVIOUS MEETING**

**5.1** The summary of actions taken on the minutes of the last meeting and present status are given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Item\*** | **Committee decision during 27th Meeting** | **Present Status** |
|  | 5.1 (1) | **IS 9866/ MED/17/25636 Marking system for valves (First Revision)**  The Committee noted the last date of comments.  The Committee decided to dispose of the comments so received in separate meeting. | Comment on the draft has been received as follows:    The Committee may **CONSIDER** and **DECIDE**. |
|  | 5.1 (3) | **Method of determination of grindability index**:  The Committee requested MS to expedite the preparation of the working draft. | The working draft is under preparation by MS.  The Committee may **NOTE**. |
|  | 5.1 (4) | **MED/17/26471 – Amendment no. 2 to IS 13095:2020 - Butterfly Valves for General Purposes (First Revision)**  The Committee noted the last of comments.  MS apprised the comment received from NPCIL received through portal. Shri Chandrakant Kakade of NPCIL apprised the members of the comments submitted by him with justification. The Committee deliberated on the proposal of adding the Helium leak test for butterfly valves intended for general purposes. It requested him to send data on the helium leak test being done for compliance of butterfly valves for different applications.  The Committee also requested him to provide draft test method for the test.  The Committee decided to dispose of the comments so received in separate meeting.  MS appreciated the effort of Shri Chandrakant Kakade in submitting the exhaustive list of comments through BIS Standards portal. She requested other members to start submitting their comments through the portal.  The Committee requested MS to re-circulate the guide ppt for logging in to the BIS Standards portal and submitting the comments. | Comment on the draft has been received as follows:    The Committee may **CONSIDER** and **DECIDE**. |
|  | 5.1 (5) | **IS 6034: 1989 Insulating oil conditioning plants - specification (first revision)**:  The Committee deliberated and approved the draft for wide-circulation for one month time.  The comment if received shall be disposed of by the panel. | The wide circulation draft (wc) is under preparation by MS.  The Committee may **NOTE**. |
|  | 5.1 (6) | **IS 4682 (Part 7):1974, IS 4682 (Part 9) :1974, and IS 4682 (Part 10) :1974:**  Since Shri Dhawal Saxena was not present during the meeting, the Committee decided to discuss this item in the next meeting.  The Committee requested MS to schedule the Committee meeting date for pre-2000 standards discussion in consultation with the Chairperson. | The recommendation on IS 4682 (Part 7):1974, IS 4682 (Part 9) :1974, and IS 4682 (Part 10) :1974 is awaited. |
|  | - | - | The request to update the standard IS 9890 : 1981 Specification for general purpose ball valves has been received from Central Laboratory. BIS has 19 operating licences for IS 9890 : 1981. The standard may again be reviewed for updation of references in the standard.  The Committee may **CONSIDER** and **DECIDE**. |
|  | - | - | The IS designation of IS 4092 (Part 1):2024 has changed to IS 4092 : 2024 in its revision.  The Committee may **NOTE**. |

***\**** *Item number refers to the proceedings of the last meeting of* ***MED 17****.*

**ITEM 6 ROLLING ANNUAL ACTION PLAN, 2024-2025**

**6.1** **Standards due for review in the year 2023-2024**

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. Following table is the list of standards due for review in the year 2023-2024.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** |
|  | IS 11552 : 2020 Liquid Nitrogen Vessels of Capacity up to 75 Litres — Specification ( Second Revision ) | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS 13095 : 2020 Butterfly Valves for General Purposes ( First Revision ) | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS/ISO 20430 : 2020 Plastics and Rubber Machines - Injection Moulding Machines - Safety Requirements | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS/ISO 22109 : 2020 Industrial Valves - Gearbox for Valves | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS/ISO 22153 : 2020 Electric Actuators for Industrial Valves - General Requirements | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS/ISO 15761 : 2020 Steel Gate Globe and Check Valves for Sizes DN 100 and Smaller for the Petroleum and Natural Gas Industries | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |
|  | IS/ISO 10434 : 2020 Bolted Bonnet Steel Gate Valves for the Petroleum, Petrochemical and  Allied Industries | The Committee noted the information. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** |

**6.2** **List of Pre-2000 standards pending with MED 17**

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.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** |
|  | IS 9866/ MED/17/25636 Marking System For Valves (First Revision) | Vide Item 5.1, Sl No. 1. | Vide Item 5.1, Sl No. 1. |
|  | IS 13306 : 1992 Oil and gas fired thermic fluid heaters | The Committee noted the information. | The proposal to transfer the IS to MTD26 has been submitted to MTD via DDG(std-II).  The Committee may **NOTE**. |
|  | IS 10605 : 1989 Steel Globe Valves (Flanged and Butt Welded Ends) for Petroleum, Petrochemical and Allied Industries — Specification (First Revision) | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 10874 : 1983 Specification for felsite grinding media and liner stones | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 13159 (PART 1) : 1993 Pipe Flanges and Flanged Fittings - Dimensions | The Committee requested MS to expedite the preparation of WC draft. | The WC draft is under preparation.  The Committee may **NOTE**. |
|  | IS 14404: 1996 Process equipment - Recommendations on design pressure and temperature | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 5036: 1969 Specification for Filter Presses, Recessed Plate Type, and Plate and Frame Type | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 6838 : 1973 Dimensions for `O' rings and grooves for vacuum flanges | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 7366 : 1974 Specification for Edge type filters required for filtration of oils of straight mineral type | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 9705 (PART 1 ): 1980 Quick Release Coupling for Vacuum Pipe Lines, Part 1: Screwed Couplings Type B | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 4682 (PART 7) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 7 corrosion and heat resistant metals | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 4682 (PART 9) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 9 titanium | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 4682 (PART 10) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 10 brick and tile | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 4864 : 1968 to IS 4870 : 1968 Specification for shell flanges for vessels and equipment | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 10989 : 1984 Specification for cast or forged steel check valves (Flanged Or Butt Welding Ends) for petroleum, petrochemicals, chemicals and allied industries | The IS is pending for review | The Committee may consider it for revision or archiving.  The Committee may **DECIDE**. |
|  | IS 11699 : 1986 Specification for steel plug valves for petroleum, petrochemical and allied industries | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 11791: 1986 Specification for diaphragm type valves for general purposes | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 13187 : 1991 Road tankers for light petroleum products - Specification | The Committee noted the information. | The standard has been archived.  The Committee may **NOTE.** |
|  | IS 9618 : 1980 Road Tankers for Liquefied Petroleum Gas | The Committee noted the information. | The standard has been archived.  The Committee may **NOTE.** |
|  | IS 9890 : 1981 Specification for general purpose ball valves | The Committee noted the information. | The standard is reaffirmed in June 2024.  Also vide ITEM 5.1 Sl No.6.  The Committee may **NOTE.** |
|  | IS 6034 : 1989 Insulating oil conditioning plants - specification (first revision) | Item 5.1, Sl No.4 | Item 5.1, Sl No.4 |
|  | IS 8243 (PART 1) : 1999/ ISO 1608-1:1993 Vapour vacuum pumps — Measurement of performance characteristics Part 1: Measurement of volume rate of flow (pumping speed) | The Committee noted the information. | This standard was last reviewed and reaffirmed in September, 2021.  1993 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |
|  | IS 8243 (PART 2) : 1993/ ISO 1608-2:1989 Vapour vacuum pumps — Measurement of performance characteristics Part 2: Measurement of critical backing pressure | The Committee noted the information. | This standard was last reviewed and reaffirmed in September, 2021.  1989 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |
|  | IS 12754 (PART 1) : 1989/ ISO 3511-1:1977 Process measurement control functions and instrumentation — Symbolic representation Part 1: Basic requirements | The Committee noted the information. | This standard was last reviewed and reaffirmed in July, 2020.  1989 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |
|  | IS 12754 (PART 2) : 1989/ ISO 3511-2:1984 Process measurement control functions and instrumentation — Symbolic representation Part 2: Extension of basic requirements | The Committee noted the information. | This standard was last reviewed and reaffirmed in July, 2020.  1984 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |
|  | IS 12754 (PART 3) : 1989/ ISO 3511-3:1984 Process measurement control functions and instrumentation — Symbolic representation Part 3: Detailed symbols for instrument interconnection diagrams | The Committee noted the information. | This standard was last reviewed and reaffirmed in July, 2020.  1984 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |
|  | IS 12754 (PART 4) : 1989/ ISO 3511-4:1985 Industrial process measurement control functions and instrumentation — Symbolic representation Part 4: Basic symbols for process computer, interface, and shared display/control functions | The Committee noted the information. | This standard was last reviewed and reaffirmed in July, 2020.  1985 version is the latest valid version. Accordingly, the standard may be reaffirmed or reaffirm and revised.  The Committee may **NOTE**. |

**6.3 Carried Forward From AAP 2023-24 - New Work Item Proposal**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** |
| 1. | Method Of Determination of Grindability Index | Vide Item 5.1, Sl No. 3 | Vide Item 5.1, Sl No. 3 |

**6.4 Carried Forward From AAP 2023-24 – Under Five Year Review**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** |
|  | IS 11699 : 1986 Specification for steel plug valves for petroleum, petrochemical and allied industries | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 11791: 1986 Specification for diaphragm type valves for general purposes | The IS is pending for review | The Committee may consider it for reaffirmation or archiving.  The Committee may **DECIDE**. |
|  | IS 13159 (PART 1) Pipe Flanges and Flanged Fittings - Dimensions | Vide Item 6.2, Sl No.5 | Vide Item 6.2, Sl No.5 |
|  | IS 13306 : 1992 Oil and gas fired thermic fluid heaters | Vide Item 6.2, Sl No.2 | Vide Item 6.2, Sl No.2 |

**6.5 Pre-2000 standards under Action Research Project allocated to BIS officers**

1. IS 10874 : 1983 Specification for felsite grinding media and liner stones, allocated to Shri M Isaac Ginlaldin.
2. IS 5036 : 1969 Specification for filter presses, recessed plate type, and plate and frame type, allocated to Shri Abhinav Kumar Singh.
3. IS 10605 : 1989 Steel globe valves (Flanged And Butt Welded Ends) for petroleum, petrochemical and allied industries - Specification (First Revision), allocated to Shri M Isaac Ginlaldin.
4. IS 7366 : 1974 Specification for edge type filters required for filtration of oils of straight mineral type, allocated to Shri Abhinav Kumar Singh.
5. IS 14404 : 1996 Process equipment - Recommendations on design pressure and temperature, allocated to Shri M Isaac Ginlaldin.
6. IS 6838 : 1973 Dimensions for `O' rings and grooves for vacuum flanges, allocated to Shri Abhinav Kumar Singh.
7. IS 9705 (Part 1): 1980 Specification for quick release coupling for vacuum pipe lines: Part 1 screwed couplings type b, allocated to Shri Sanjay Kumar Vishwakarma
8. IS 4682 (Part 7) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 7 corrosion and heat resistant metals, allocated to A Arivazhagan
9. IS 4682 (Part 9) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 9 titanium, allocated to A Arivazhagan
10. IS 4682 (Part 10) : 1974 Code of practice for lining of vessels and equipment for chemical processes: Part 10 brick and tile, allocated to A Arivazhagan
11. IS 9866 : 1981 Marking system for valves, allocated to Shri Sanjay Kumar Vishwakarma

The Committee may **NOTE**.

**ITEM 7 NEW SUBJECT PROPOSAL RECEIVED**

New work item proposal (NWIP) forDry Vacuum Pump: Multi-Stage Roots Dry Pump has been submitted by Shri Lalit Goswami of CSIR-National Physical Laboratory, New Delhi.



The Committee may **REVIEW** the NWIP proposal.

**ITEM 8 Programme of Work**

****

The Committee may please **NOTE**.

**ITEM 9 STATUS OF INDIAN STANDARDS**

**9.1 Quality Control Order**

The Committee may note that the following standards prepared by MED 17 have been brought under mandatory certification by Department for Promotion of Industry and Internal Trade:

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **IS No.** | **Date of implementation** |
|  | IS 13095 : 2020 Butterfly Valves for General Purposes ( First Revision ) | 01January 2021 |

The Committee may **NOTE**.

**9.2 Proposed Quality Control Orders**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **IS No.** | **Proposed Date** |
|  | IS/ISO 4126-1 : 2013 Safety Devices For Protection Against Excessive Pressure Part 1 Safety Valves | 31 May 2024 |
|  | IS 12370 (Part 2) : 2023/ ISO 4126-2:2018 Safety Devices For Protection Against Excessive Pressure Part 2 Bursting Disc Safety Devices (Second Revision) | 31 May 2024 |
|  | IS 12370 (Part 3) : 2023  ISO 4126-3: 2020 SAFETY DEVICES FOR PROTECTION AGAINST EXCESSIVE  PRESSURE PART 3 SAFETY VALVES AND BURSTING DISC  SAFETY DEVICES IN COMBINATION (Second Revision) | 31 May 2024 |
|  | IS 12370 (Part 4) : 2023  ISO 4126-4: 2013 SAFETY DEVICES FOR PROTECTION AGAINST EXCESSIVE  PRESSURE PART 4 PILOT OPERATED SAFETY VALVES (Second  Revision | 31 May 2024 |
|  | IS 12370 (Part 5) : 2023  ISO 4126-5: 2013 SAFETY DEVICES FOR PROTECTION AGAINST EXCESSIVE  PRESSURE PART 5 CONTROLLED SAFETY PRESSURE RELIEF  SYSTEMS CSPRS (Second Revision | 31 May 2024 |

During 26th meeting, the Committee decided to review one of the standards every month for providing input on BIS certification.

The 1st Committee meeting date for above discussion will be informed in consultation with the Chairperson.

The Committee may **NOTE**.

**9.3 BIS Domestic Licences**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **IS No.** | **Number of Licences as on Date** |
|  | IS 13095 : 2020 Butterfly Valves for General Purposes ( First Revision ) | 98 |
|  | IS 9890 : 1981 Specification for general purpose ball valves | 19 |
|  | IS 11552 : 2020 Liquid Nitrogen Vessels of Capacity up to 75 Litres — Specification ( Second Revision ) | 04 |

The Committee may **NOTE**.

**9.4 Quality Control Order for Machinery and Electrical Equipment Safety**

This is with reference to the Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2024 issued by Ministry of Heavy Industries dated 28 August 2024. Provision of the OTR has been given in the Order.



The above comes under mandatory BIS Certification under Scheme-X of BIS (Conformity Assessment) Regulations wef date as indicated in the above Order.

The Committee may **NOTE**.

**ITEM 10 INTERNATIONAL ACTIVITIES**

**10.1 Liaison with ISO TCs**

Co-ordination of work with ISO/TC 112 Vacuum Technology (P), ISO/TC 270 Plastic and Rubber Machines (P), ISO/TC 153 Valves (P)

**10.2** The list of ISO Standards published by ISO/TCs can be assessed through ISO website.

The committee may review ISO Standards published and identify the Standards for possible adoption as Indian Standards or inputs can be taken for revising the existing Indian Standards.

**10.3** India is a ‘P’ member of ISO/TC 112, ISO/TC 270 and ISO/TC 153**.** Being P-member, it is obligatory for India to vote on all the documents. The comments from the members are compiled and sent to the Chairman for approval for voting. All the members and the Chairman are requested to take prompt action on the circulated documents for voting as voting is time bound.

Effective participation in ISO activities is crucial for our nation as we have a significant stake in international trade and ISO standards. Therefore, it is essential that the committee participates effectively and thoroughly examines ISO ballots with respect to their relevance. If the ballot is relevant to us, the committee should nominate experts to represent our nation in ISO meetings. This will help to ensure that our national interests are well-represented and safeguarded in the international arena.

**10.4 Upcoming ISO Mirror Committee Meetings**

The ISO/IEC experts are requested to inform the upcoming meetings and dates for their nomination approval.

**10.5 List of experts in various ISO committee/Sub-committee/WG**

|  |  |  |  |
| --- | --- | --- | --- |
| **ISO committee/Sub-committee/WG** | **Work Description** | **Experts nominated** | **Interest Level** |
| ISO TC 153/WG 1 “Actuators and valve actuators attachments” | "Valve actuators and valve actuators attachments" has been working on the revision of ISO 5210, ISO 5211 and ISO 22109 | Shri Yashwant M Jannu of Auma India Pvt. Ltd.  Shri Sabarna Roy of Kejriwal Castings | M |

**NOTE:** As per the latest directions from CA of BIS, A provision has been introduced to identify each project/ballot of ISO/IEC under High (H) /Medium (M) /Low (L) interest levels.

For project/ballot of ISO/IEC at H level, one or two designated experts shall be nominated by the respective Sectional Committees. The designated expert shall be responsible for providing detailed feedback on drafts and documents from ISO/IEC, assisting the Sectional Committee in developing the rationale for proposing NWIPs, finalizing proposals for leadership positions and secretariats and briefing the Sectional Committee on discussions at the ISO/IEC level.

The Committee may **NOTE**.

**ITEM 11 SELECTION OF SUBJECTS/NEW SUBJECTS**

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

a) Whether the subject is financed by the proposer;

b) Sale ability of the standard;

c) Standards shall be user friendly;and

d) Social needs with regards to safety, health and environment.

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

**

*The Committee may please note and suggest new subjects for standards formulation.*

**ITEM 12 BIS COMMITTEES OF THE YEAR AWARDS**

To recognize the significant contribution and outstanding performance of a BIS Sectional Committee or Subcommittee in the development of Indian Standards these awards have been started. Any Sectional Committee or Sub-Committee of BIS would be eligible for the award. The award shall be given to one of the Sectional Committees or Subcommittees under each Divisional Councils on an annual basis. Nomination for the award can be submitted by any Sectional committee/Sub-Committee (by the Chairperson or a Member). Nominations should be submitted to the Member Secretary of the Committee by 30 April of the year in the prescribed form.

The selection shall be based on the following criteria:

* The size and portfolio of the committee’s work, including of any work plan
* Management of current work program with priority setting, development of need based standards having high degree of relevance, ensuring timelines of standard development
* Timely review & up-dating of standards
* Number of standards published
* Good meeting dynamics with - timely meetings, ensuring adequate agenda items and good level of participation of members.
* Good coordination & communication internally with reporting by a subordinate committee.
* Promotional activities of committee work through workshops, conferences, seminars and trainings
* Contributions to international standards activities
* Specific achievements that are outstanding in nature including any committee level innovations.

The award shall comprise of a plaque and a certificate which shall be presented on the occasion of World Standards Day celebration each year to be received by the Committee Chairperson/Convener or a member or it’s Member Secretary.

*The Committee may please note.*

**ITEM 13 LETTER OF APPRECIATION TO COMMITTEE MEMBERS**

Objective: To recognize significant contributions of members of technical committees in developing standard(s) that can be considered to be a major development in the subject area and in national/international standardization.

Any individual can be nominated in his/her capacity as a member of a Committee/Subcommittee/panel including their Chairperson/Convenor. Candidates may be nominated by fellow members, by the Chairperson/Convenor or Member Secretary of the relevant technical committee in the prescribed form.

The person nominating shall consider those individuals who have made significant contribution in an important recent standardization project. The following aspects shall be considered while recommending for letter of appreciation:

1. Leadership in initiating a project.
2. Technical inputs provided on standard(s) developed including during preparation of the draft standard.
3. Draft document(s) developed (new Indian Standards/revision of existing Indian Standards).
4. Technical comments/inputs provided on ISO/IEC documents/deliverables or major contributions made in developing International Standards.
5. Exceptional contributions in leading standardization projects at national/international level.
6. Initiatives taken/contributions in standards promotion work through workshops, conferences, seminars and training.

*The Committee may please note*.

**ITEM 14 NATIONAL AND INTERNATIONAL LEVEL EVENTS TO BE PARTICIPATED IN**

BIS has envisaged participation in events organized at national and international level as these events showcases the latest trends in the field of standardization and technological advancements. Considering the importance of these events committee may please suggest such event where participation of BIS can benefit development of national standards.

*Committee may please discuss and suggest some National/International events related to committee.*

**ITEM 15 SCIENTIFIC JOURNALS AND PERIODICALS TO BE SUBSCRIBED**

BIS has taken a new initiative to subscribe to scientific journal and periodicals relevant to committee work. It is also envisaged that relevant articles from these journal and periodicals are shared with members of sectional committee.

*Committee members may please suggest important journals and magazines that may benefit this committee.*

**Item 16 CREATION OF POOL OF EXPERTS**

As part of its initiative to develop a pool of experts for standardization activities, BIS has established standardization chairs in technical institutes of national repute, including IITs, NITs, and others. In addition, BIS plans to establish standardization cells in various manufacturer's associations to further this effort. By tapping into the knowledge and skills available in the country, this initiative can assist BIS in developing more effective and technically sound standards. This approach can also ensure that technical experts are linked with the National Standards Body to foster a high-quality ecosystem in India.

*The Committee may please note.*

**Item 17 RESEARCH PROJECT TO BE TAKEN UP FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS**

**17.1** BIS has recognized the importance of including research to generate empirical data in its standardization process for the development of Indian standards. Decision making without evidence can be challenging, and it may result in dropping some crucial projects related to standard-making. In this regard, empirical data can help the committee to make informed decisions on such issues. By incorporating research-based empirical data, the standardization process can become more evidence-based, accurate, and effective, ultimately leading to the development of better and more relevant Indian standards. This type of project may be granted to experts in the relevant field.

*The committee may deliberate on this topic and identify standards that require empirical data for their development or revision.*

**17.2 Guidelines for Research & Development Projects**

Bureau of Indian Standards (BIS), as the National Standards Body of India is responsible for formulating Indian Standards for products, processes and services. In the pursuit of this endeavour, it has so far developed more than 22000 Indian Standards. Action Research and Research & Development Projects have always been part of the standardization process. However, there has been a growing realization in the context of the increasing diversification, innovation and complexities in the manufacturing sector and evolution of services and also due to the fast pace of changes in the manufacturing and services landscapes, research & development projects have to be made an integral part of the standardization process. The idea is that in principle no standard should be developed without intensive and insightful research work, which is not confined only to the review of the existing literature and focus group discussions on the subject chosen for standardization, but also covers the detailed field level study of the existing processes and practices in product manufacturing and service delivery. This requires a large network of domain area experts to carry out the research & development work. The existing network encompasses only a small segment of experts, who are either associated with technical committees as members or belong to some R&D organizations. The Memorandum of Understanding with the premier educational institutions imparting technical and professional education opens the window to the opportunities to expand this network substantially by utilizing the intellectual capital that resides with the faculty and the research scholars in these institutions. This association is conceived not only as a way to promote research & development work necessary for standards formulation but also to enrich the research ecosystem in these educational institutions.

BIS has revised its R&D Guidelines and is attached here for reference.



The Committee may please note.

**17.3 Exposure Visits by Member Secretary**

BIS has directed Member Secretaries of BIS Technical Committees have to visit a manufacturing/ testing/ other facilities pertaining to their TCs Programme of Work, each month as an exposure visit to gain more detail on the relevant specific subject.

**ITEM 18 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:

**18.1 Green Initiative by BIS**

As part of the ‘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.*

**18.2 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.*

**18.3 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 as given below.



*The Committee may please note.*

**ITEM 19 GUIDELINES FOR MEMBERS OF TECHNICAL COMMITTEES**

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

1. 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,
2. 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
3. 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.
4. 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 as given below.



*The Committee may please note.*

**ITEM 20 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 as given below.



*The Committee may please note.*

**ITEM 21 NEW INITIATIVES IN STANDARDIZATION**

1. **DOWNLOADING OF INDIAN STANDARDS (FREE OF COST)**

In order to encourage 'Ease of Doing Business' as well as promote the use of Indian Standards, BIS has decided that the Indian Standards except those adopted from other International Standards bodies may be made available free of cost to the users for non- commercial purposes. The adopted standards from standards developing organisations (SDOs) and all other Indian Standards intended to be used for commercial purposes may be continued to be made available for a price as per existing guidelines.

*The Committee may please note.*

1. **NATIONAL INSTITUTE FOR TRAINING IN STANDARDIZATION (NITS)**

The training schedule of the training offered by National Institute for Training in Standardization (NITS), NOIDA is available on BIS website [www.bis.gov.in](file:///C:\Users\TNMD\Downloads\www.bis.gov.in).

*The Committee may please note.*

1. **BIS ACTIVITIES ON SOCIAL MEDIA**

BIS is now active on Social Media. The links have been provided on the BIS website.

*The Committee may please note.*

1. **ONE NATION ONE STANDARD**

Bureau of Indian Standards (BIS), the National Standards Body of India, has developed more than 20000 Indian Standards across 15 sectors covering various aspects of the economy. There are several other government entities in sectors such as railways, defence, space, and nuclear energy applications etc. publishing standards for their own use. In addition, there are Standards Developing Organizations (SDOs) and Regulatory bodies with their expertise overlapping with BIS, which are also developing standards in different domains. Apart from this, leading overseas private standards bodies have set up Indian offices/chapters to promote the use of their standards among Indian industry. This multiplicity of standards has resulted in multiplicity of conformity assessment schemes. There are instances of the same product being subjected to multiple certifications as mandated by different Ministries/regulators. This leads to confusion among industry, consumers and purchase organisations as to which standards should be followed and adds to the cost of certification. Such situations are not desirable and are in contradiction to ease of doing business. It also defeats the very purpose of standardisation and results in wastage of resources due to parallel efforts. In order to increase the ‘Ease of Doing Business’, it is important to tackle the issue of multiplicity of standards. Considering that the convergence of standards is of decisive strategic importance to the future of Indian economic growth story, BIS has taken active steps to promote "One Nation One Standard", with BIS, the National Standards Body, functioning as the umbrella organisation steering India's standardisation efforts. As mandated by the BIS Act, 2016, BIS would be recognizing and synergizing the efforts of SDOs to develop standards as per good practices and six principles of international standardisation outlined by WTO and by recognizing these standards formulated by SDOs/Regulators as Indian Standards. BIS has prepared a draft scheme for recognition of SDOs, which was circulated among the SDOs for their comments. Comments received are being examined for necessary modifications in the scheme, if any. In this regard, two consultative meetings of SDOs were held on 09 August 2019 and 02 December 2019.

*The Committee may please note.*

1. **MEMORANDUM OF UNDERSTANDING WITH EMINENT INSTITUTES**

Bureau of Indian Standards (BIS), has signed Memorandum of Understanding (MoU) with the institutes of eminence for collaboration in the field of standardisation and conformity assessment.

*The Committee may please note.*

**ITEM 22 OTHER ACTIVITIES/INFORMATION**

**a) WTO-TBT ENQUIRY POINT**

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 inquiry point as nominated by the Ministry of Commerce, the dealing Ministry with WTO. 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.

1. 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 the 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.
2. BIS disseminates the TBT Notifications of other countries to the Indian Stakeholders with a view to seek their comments and take up the same at appropriate forums. The stakeholders are expected to examine the notifications on the following aspects:
3. Are the notifications in accordance with International Standards?
4. Are they stricter than the International Standards?
5. Are they stricter then the International Standards than necessary to meet the legitimate objective of:

* Protection of human health or safety
* Animal or Plant life or health
* Environment Protection

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.

The email address of BIS enquiry point is as follows:

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

Website: [www.bis.gov.in](http://www.bis.org.in/)

*The Committee may please note.*

**b)** **TRANSLATION OF INDIAN STANDARDS**

This is for the information of Committee members that there is a provision in BIS to translate the Indian Standards in Hindi by Committee members. For this purpose, they will be paid Rs. 250/- per page of A-4 size (Approx 300 words). Those members who are interested to do this job of translation can register their name with BIS details available at:

[http://www.bis.gov.in/other/EOIHT.htm](http://www.bis.org.in/other/EOIHT.htm).

*The Committee may please note.*

**ITEM 23 SUSTAINABILITY PERSPECTIVE IN INDIAN STANDARDS**

1. 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.
2. 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 24 UNECE GENDER RESPONSIVE STANDARDS DECLARATION**

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:

1. Strengthening the use of standards and technical regulations as powerful tools to attain SDG 5 (Achieve Gender Equality and Empower all Women and Girls);
2. Integrating a gender lens in the development of both standards and technical regulations; and
3. Elaborating gender indicators and criteria that could be used in standards development.
4. In line with these objectives, BIS aims to work towards:

* Gender responsive standards;
* Gender balance at all levels in all Committees including leadership positions;
* Enhanced expertise to create and deliver gender inclusivity;

The Committees 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 please note.*

**ITEM 25 ACCESSIBILITY**

A request was received from the Department of Empowerment of Persons with Disabilities, Government of India to include additional requirements in the relevant Indian standards that will help/assist the specially-abled person under the Accessible India Campaign (AIC).

*The Committee may please note.*

**ITEM 26 DATE AND PLACE FOR THE NEXT MEETING**

**ITEM 27 ANY OTHER BUSINESS**

**ANNEX-1**

(*See Clause* **2.2.1**)

**COMPOSITION OF CHEMICAL ENGINEERING PLANT AND RELATED EQUIPMENT SECTIONAL COMMITTEE, MED 17**

|  |  |  |
| --- | --- | --- |
| **27th** | **23-Sep-2024** | **Virtual (WEBEX)** |
| **26th** | **28-Jun-2024** | **IIP Dehradun (Hybrid)** |
| **25th** | **08-Nov-2023** | **Virtual (WEBEX)** |
| **24th** | **12-Sep-2023** | **Manak Bhawan, New Delhi** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Organisation Represented** | **Principal Member/Alternate Member** | **24th** | **25th** | **26th** | **27th** | **Total** |
|  | CSIR - Indian Institute of Petroleum, Dehradun | Shri Mritunjay Kumar Shukla (*Chairman*) | Y | Y | Y | Y | 4/4 |
|  | Advance Valves Global, Noida | Shri Pranay S. Garg  Shri Rajiv Gupta (*Alternate*) | NA | NA | NA | NA | NA |
|  | Auma India Pvt. Ltd., Bengaluru | Shri Yashwant M. Jannu | Y | Y | N | N | 2/4 |
|  | Bharat Heavy Electrical Limited, New Delhi | Shri Y. Srinivasa Rao  Shri Abhishek Kumar Pandey (*Alternate*) | Y | Y | Y | Y | 4/4 |
|  | Bharat Petroleum Corporation Limited Corporate Research & Development Centre, Greater Noida | Ms Isha Khullar  Shri Vinod Kumar (*Alternate*) | NA | NA | Y | N | 1/2 |
|  | Bhumistha Infra Services (previously Blast Carboblocks Private Limited, Mumbai) | Shri Dhawal Saxena | Y | Y | Y | N | 3/4 |
|  | Chemtrols Industries Pvt. Ltd., New Delhi | Shri P. Krishna Kumar | Y | N | N | N | 1/4 |
|  | Confederation of Indian Industry, New Delhi | Shri Nandakumar Kalath  Shri Abilash Uttam (*Alternate*) | Y | Y | N | Y | 3/4 |
|  | Directorate General Factory Advice Service & Labour Institutes, Mumbai | Shri Tanoj Chandan  Shri Kunal Sharma (*Alternate*) | Y | Y | Y | Y | 4/4 |
|  | Engineers India Ltd., Gurugram | Shri Hasmukh K. Parmar  Shri Mragang Sheakhar (*Alternate*) | Y | Y | N | N | 2/4 |
|  | Fab-Tech Works & Constructions Private Limited – Mumbai | Shri Aashish Jayprakash  Shri Pradeep Gawate (*Alternate*) | NA | NA | Y | N | 1/2 |
|  | GMM Pfaudler Limited, Anand | Shri Dhiran Panchal  Shri Satvik Patel (*Alternate*) | Y | N | Y | Y | 3/4 |
|  | Kejriwal Castings Ltd, Kolkata | Shri Sandip Kejriwal | Y | N | Y | Y | 3/4 |
|  | L&T Valves, Chennai | Shri Rohit Sharma  Shri Suriyanarayanan (*Alternate*) | Y | N | N | N | 1/4 |
|  | Lathia Rubber Manufacture Company Private Limited, Mumbai | Shri Sanjiv S. Lathia  Shri Ashit (*Alternate*) | NA | NA | NA | NA | NA |
|  | MECON Limited, Ranchi | Shri Yogendra Kumar Singh  Shri Arvind Bhushan | Y | Y | Y | N | 3/4 |
|  | Projects & Development  India Ltd, Noida | Shri Sanjiv Kumar Mishra  Shri Rajeev Ranjan Kumar (*Alternate*) | Y | N | N | Y | 2/4 |
|  | Tata Consulting Engineers Limited, Navi Mumbai | Shri Shivnarayan Pareek  Shri Shireesh S. Swami (*Alternate*) | Y | N | Y | N | 2/4 |

**ANNEX 2**

(Item **2.2.4**)

**EXTRACTS ON GUIDELINES FOR PARTICIPATION IN THE TECHNICAL**

**COMMITTEE WORK OF BIS**

|  |
| --- |
| * Where an organization offered representation in BIS work feels that it has limited interests in the scope of activity of a committee it shall communicate so to the committee secretary before accepting the representation. * All organizations represented in a technical work of BIS I shall be conscious of the national role they play in the preparation of standards. They shall nominate the best available ta1.ent for this work and ensure that their nominees are fully briefed, and utilize all opportunity to express their organization’s view point in the Bureau forums. For continuity of participation, it shall be ensured that representatives once nominated are continued as long as possible and changes where inevitable are proceeded smoothly and shall be communicated to Secretary without delay. * Organizations participating in the technical work of the Bureau may also consider initiating wherever possible formal standardization activity within the organization that would amongst other things aid participation and act as permanent liaison with Bureau on all standardization matters and shall coordinate adoption and implementation of national standards. * Organizations 'representing the interests of a group/association/federation may ensure that all constituent members (whose interest he/she represent) are consulted/kept informed of the committee work. * All expenses related to the nominees for participating in this activity are to be borne by the participating organizations. * Authorities nominating representatives as members of Sectional Committee of the Bureau, if they so choose, may nominate two representatives one to be known as the principal and the other as the alternate, subject to the following:   + Generally, one representative shall attend the meeting but if this department or body so desired both the principal and alternate may attend the meeting.   + Only the principal representative shall have the right to vote.   + In the absence of the principal representative, the alternate may exercise the right to vote.   + All documents concerned with the work of the technical committee shall ordinarily be sent to the Principal representative, if both principal and alternate representatives are located at the same station. However, if principal and alternate representatives are from different stations, all documents shall be sent to both the representatives.   + Organizations may, if they so choose, nominate experts by designation instead of by name.   + In exceptional circumstances where a case in made out on the basis of regional representation or representation of special interests within any organization, more than one alternative may be accepted by the officer-in charge of the Division.   + Only the designated Principal/Alternate members can attend Sectional Committee meetings. In case of their absence, their representatives can attend the meetings. However, BIS should be given prior intimation in such cases. In any case, no more than two representatives from one organization can attend the committee meetings. * Comments on documents at any stage, as well as on printed Indian Standards, though are welcome at all times, members are requested to send them well in advance for inclusion in the agenda in order to consider them in the meeting. Comments received very late or brought along for tabling during the meeting will be liable not to be considered as other members have not had the opportunity to deliberate within their organization on these comments and form their viewpoint and are unable to put forth their views at a short notice. * In case there is continual failure to contribute either through correspondence or by attending meetings for a period of three years/three technical Committee meetings by the members, the membership of such organizations will be recommended for withdrawal. |

**ANNEX 3**

(Item **5.1 Sl No.6**)

**LIST OF PRE-2000 STANDARDS PERTAINING TO MED 17, PENDING FOR ARP AND P-DRAFT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **IS No.** | **Title** | **Subject Area** |
|  | IS 10605 | Steel Globe Valves (Flanged and Butt Welded Ends) for Petroleum, Petrochemical and Allied Industries — Specification (First Revision) | Globe valves for petrochemical industries |
|  | IS 10874 | Specification for felsite grinding media and liner stones | Grinding media and liner stones |
|  | IS 14404 | Process equipment - Recommendations on design pressure and temperature | Thermal and pressure design of chemical process equipment |
|  | IS 5036 | Specification for filter presses, recessed plate type, and plate and frame type | Filter press |
|  | IS 6838 | Dimensions for `O' rings and grooves for vacuum flanges | O-rings for flanges |
|  | IS 7366 | Specification for edge type filters required for filtration of oils of straight mineral type | Edge type filter for mineral oil |
|  | IS 9705 (Part 1 ) | Specification for quick release coupling for vacuum pipe lines: Part 1 screwed couplings type b | Coupling for vacuum lines |
|  | IS 4682 (Part 7) | Code of practice for lining of vessels and equipment for chemical processes: Part 7 corrosion and heat resistant metals | Lining of chemical process vessels and equipment - corrosion and heat resistant metals |
|  | IS 4682 (Part 9) | Code of practice for lining of vessels and equipment for chemical processes: Part 9 titanium | Lining of chemical process vessels and equipment - titanium |
|  | IS 4682 (Part 10) | Code of practice for lining of vessels and equipment for chemical processes: Part 10 brick and tile | Lining of chemical process vessels and equipment - brick and tile |
|  | IS 4864 : 1968 to IS 4870 : 1968 | Specification For Shell Flanges For Vessels And Equipment | Shell flanges for chemical process vessels and equipment |
|  | IS 10989 : 1984 | Specification for cast or forged steel check valves (Flanged Or Butt Welding Ends) for petroleum petrochemicals chemicals and allied industries | Check valves for petrochemical industries |
|  | IS 11699 : 1986 | Specification for steel plug valves for petroleum, petrochemical and allied industries | Plug valves for petrochemical industries |
|  | IS 11791: 1986 | Specification for diaphragm type valves for general purposes | Diaphragm valves for general purpose |

**ANNEX 4**

**COMPOSTION OF PANEL FOR INSULATING OIL CONDITIONING PLANT**

The composition of the Panel is as follows:

1) Dr Mritunjay Kumar Shukla (Convener)

2) Dr. P. Thomas of M/s Central Power Research Institute, Bengaluru

3) Sh. Sanjiv Kumar Mishra of M/s Project and Development India Ltd., Noida

4) Sh. Anshuman Agrawal of M/s Managing Director, Minimac Systems Pvt. Ltd.

5) Sh. Nitin Dhamale, Director of M/s Cee Dee Vacuum Equipment Pvt. Ltd.

6) Sh. Rajaram Shinde in Personal Capacity

7) Sh. TCSM Gupta, GM (Operations) of M/s Apar Industries Ltd.