***FOR BIS USE ONLY***



**भारतीय मानक ब्‍यूरो**

**BUREAU OF INDIAN STANDARDS**

**MINUTES**

|  |  |  |  |
| --- | --- | --- | --- |
| **Committee** | **Date & Day** | **Time** | **Place** |
| **28th meeting of** **Chemical Engineering Plants and Related Equipment Sectional Committee, MED 17** | **10 December 2024,**  **Tuesday** | **1100-1250 hrs** | **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

**Members Present:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Organisation Name** | **Name of The Member** | **Email** | **Mobile** |
|  | [CSIR - Indian Institute of Petroleum, Dehradun](javascript:;) | Shri Dr Mritunjay Kumar Shukla  (*Chairperson*) | mshukla@iip.res.in | 9760132244 |
|  | [Advance Valves Global, Noida](javascript:;) | Shri Pranay S. Garg | pranay.garg@advancevalves.com | 9910848332 |
|  | [Advance Valves Global, Noida](javascript:;) | Shri Rajiv Gupta | rajiv.gupta@advancevalves.com | 9910851847 |
|  | [Bharat Petroleum Corporation Limited Corporate Research & Development Centre, Greater Noida](javascript:;) | Shri Vinod Kumar | vinodkumar006@bharatpetroleum.in | 7829795311 |
|  | [Kejriwal Casting Limited, Kolkata](javascript:;) | Shri Sabarna Roy | sr@kejriwalcastings.com | 9836806086 |
|  | [L&T Valves, Chennai](javascript:;) | Shri Suriyanarayanan | suriya.s@lntvalves.com | 9840532410 |
|  | [Project and Development India Limited, Noida](javascript:;) | Rajeev Ranjan Kumar | rranjank@pdilin.com | 9818270688 |
|  | [Tata Consulting Engineers Limited, Navi Mumbai](javascript:;) | Shri Shireesh S. Swami | ssswami@tce.co.in | 9867152048 |
|  | [Tata Consulting Engineers Limited, Navi Mumbai](javascript:;) | Shri Shivnarayan Pareek | shivnarayanp@tce.co.in | 9619279435 |
|  | BIS Directorate | Ms Neha Thakur (MS) | med@bis.gov.in | 7898323992 |

**Item 0 WELCOME AND OPENING REMARKS**

**0.1** MS on behalf of Shri K. Venkateswara Rao, Head (MED), welcomed all the members and invitees present during the meeting. MS informed the members that Shri Mritunjay Kumar Shukla will join in few minutes due to some exigency.

**0.2** Shri Sabarna Roy on behalf of Shri Mritunjay Kumar Shukla, Chairperson welcomed all the members present during the meeting. He thanked all the members present for sparing their valuable time for this meeting. With this, he hoped for fruitful deliberation during the meeting.

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

The Committee confirmed 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) which was circulated to members vide letter having Ref: MED 17/A-2.27, dated 24 September 2024.

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

**2.1 Scope and Liaison**

The Committee noted the information.

**2.2 Composition of the Committee**

**2.2.1** The Committee noted the composition and attendance of the members in **Annex 1**. It noted the active participation letters sent to the organizations for which no response has been received. In view of the above and due to low participation in MED 17, the Committee decided to remove following organizations, if they do not attend next meeting of MED 17:

a) Auma India Pvt. Ltd., Bengaluru; and

b) Chemtrols Industries Pvt. Ltd., New Delhi.

Shri Suriyanarayanan of L&T Valves, Chennai confirmed his active participation in MED 17.

Shri Rajiv Gupta agreed to communicate with Engineers India Ltd. for its active participation.

The Committee accepted the revised nomination from Shri Dhawal Saxena of Bhumistha Infra Services.

**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. – The Committee decided to discuss this item in the next meeting.

**b) Indian Oil Corporation Ltd** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. – The Committee decided to discuss this item in the next meeting.

**c) ABB (ABB India Limited)** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. – The Committee decided to discuss this item in the next meeting.

**d) L&T Hydrocarbon Hazira** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. – The Committee decided to discuss this item in the next meeting.

**e) ISGEC Heavy Engineering Ltd.** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. -– The Committee decided to discuss this item in the next meeting.

**f) Godrej Industries Ltd** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. - – The Committee decided to discuss this item in the next meeting.

**g)** **Zetwerk**  – Fresh letter of co-option has been sent through speed post on 29 November 2024. Nomination is awaited. - – The Committee decided to discuss this item in the next meeting.

**h) WAPCOS Limited** – Fresh letter of co-option has been sent through speed post on 17 May 2024. Nomination is awaited. - – The Committee decided to discuss this item in the next meeting.

**2.2.3** The Committee noted the information.

**2.2.4** The Committee noted the information.

**2.2.5** The Committee noted the information.

**2.2.6** The Committee noted the information.

**2.2.7 Gender Responsive Standards Initiative**

The Committee noted the information.

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Type of Stakeholder** | **Number** | **Percentage** | **Vacancy** | **Vacancy filled during 28th meeting** |
|  | Manufacturer | 10 | 52.63% | 04 | 01 |
|  | Manufacturer’s association | 01 | 5.26% | 01 | 00 |
|  | Consumer organization | 02 | 10.52% | 02 | 01 |
|  | Academia | 01 | 5.26% | 01 | 00 |
|  | Ministry/ Central/ State Govt. bodies | 01 | 5.26% | 01 | 01 |
|  | Regulatory Body | **00** | **00%** | **01** | **00** |
|  | Technologist | 04 | 21.05% | 00 | 00 |
|  | Individual Experts | **00** | **00%** | **02** | **00** |

The Committee reviewed the CVs of all the new co-option requestors and the information ofstakeholder categorization of MED 17. The Committee decided as follows:

a) Shri Mohan Babu Yarlagadda, Joint Chief Inspector of Factories, Government of Telangana (Factories Department) – The Committee accepted the nomination;

b) Shri Pinkesh Patel, Assistant General Manager, L&T-Sargent & Lundy Limited, Vadodara – The Committee accepted the nomination;

c) Shri Satish Subhash Gaikwad, Manager, Bhama Organic Pvt. Ltd. – The Committee did not accept the nomination due to limited expertise in the subjects under MED 17;

d) Shri Sukalp Lamture, Process Engineer, Hikal Limited – The Committee did not accept the nomination due to limited expertise in the subjects under MED 17;

e) Shri Bahadur Shah Sheik, Proprieter, Uneo Techsol – The Committee did not accept the nomination as his expertise is not relevant to MED 17. However, it decided to keep him in the mailing list for his comments on various drafts and standards under MED 17;

f) Shri Shivashish Pandey, Assistant Engineer B, DCM Shriram Limited, Delhi – The Committee did not accept the nomination due to limited expertise in the subjects under MED 17;

g) Shri Hardeep Singh, Development Engineer, Kartar Valves Pvt. Ltd. – The Committee accepted the nomination;

h) Shri Nanda Kishore Babu, In Personal Capacity – The Committee did not accept the nomination due to limited expertise in the subjects under MED 17; and

j) Shri Hardeep Singh, In Personal Capacity – The Committee noted that this is duplicate request of Sl no. g), so it decided to drop this item.

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

The Committee noted the information.

**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 | XX\*\* January 2025 |

\*\*exact date will be informed in consultation with the Chairperson.

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

**5.1** Action points is given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Item\*** | **Committee decision during 27th Meeting** | **Present Status** | **Committee decision during 28th Meeting** |
|  | 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**. | The Committee deliberated the comments and decided as follows:    See also Annex -5. |
|  | 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**. | The Committee requested MS to expedite in preparation of the draft for preliminary draft circulation to the members. The Committee decided that if no comment is received, the Committee approved the draft for printing. |
|  | 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**. | The Committee deliberated the comments and decided as follows:      The Committee revisited the first item of wc draft amendment no.2 and noted that butterfly valves comes in varied types and may not necessarily be bidirectional. So, it decided to drop first item of wc draft amendment no.2 and finalized the draft for printing with the changes as decided above.  See also Annex -6. |
|  | 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**. | The Committee requested MS to expedite in preparation of the draft for wide circulation. |
|  | 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. | No recommendation has been received from Shri Dhawal Saxena. The Committee decided to revise the standards IS 4682 (Part 7):1974, IS 4682 (Part 9) :1974, and IS 4682 (Part 10) :1974 incorporating editorial changes.  The Committee decided to P-draft it for 15 days. If no comment is received, it approved the draft for wide circulation for one month time. If no comment is received, the Committee approved the draft for printing. |
|  | - | - | 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 Committee requested Shri Shivnarayan Pareek and Shri Shireesh of Tata Consulting Engineers limited to review IS 9890:1981 for references updation and need for technical revision considering the existing licences under the standard. They also agreed to provide the recommendation in the next meting. |
|  | - | - | The IS designation of IS 4092 (Part 1):2024 (Centrifuges of the basket and bowl and vibrating type for use in industrial and commercial applications) has changed to IS 4092 : 2024 in its revision.  The Committee may **NOTE**. | The Committee approved the change in the designation to IS 4092 : 2024. |
|  | - | - | - | Review of Pre-2000 and archived standards:  Shri Sabarna Roy requested MS to provide the pending pre-2000 and archived standards. He proposed that he will summarize the standards for the Committee review which will save time. The Committee member may then take up for review of the above standards based on their expertise and interest. |

***\**** *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** | **Committee decision during 28th Meeting** |
|  | IS 11552 : 2020 Liquid Nitrogen Vessels of Capacity up to 75 Litres — Specification ( Second Revision ) | The Committee decided to reaffirm IS 11552 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS 13095 : 2020 Butterfly Valves for General Purposes ( First Revision ) | The Committee decided to reaffirm IS 13095 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS/ISO 20430 : 2020 Plastics and Rubber Machines - Injection Moulding Machines - Safety Requirements | The Committee decided to reaffirm IS/ISO 20430 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS/ISO 22109 : 2020 Industrial Valves - Gearbox for Valves | The Committee decided to reaffirm IS/ISO 22109 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS/ISO 22153 : 2020 Electric Actuators for Industrial Valves - General Requirements | The Committee decided to reaffirm IS/ISO 22153 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | 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 decided to reaffirm IS/ISO 15761 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS/ISO 10434 : 2020 Bolted Bonnet Steel Gate Valves for the Petroleum, Petrochemical and  Allied Industries | The Committee decided to reaffirm IS/ISO 10434 : 2020. | The standard is reaffirmed in June 2024.  The Committee may **NOTE.** | The Committee noted the information. |

**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** | **Committee decision during 28th Meeting** |
|  | 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. | 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**. | The Committee requested MS to inform the status in the next meeting. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee requested MS to expedite and prepare the draft for wide circulation. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | IS 13187 : 1991 Road tankers for light petroleum products - Specification | The Committee noted the information. | The standard has been archived.  The Committee may **NOTE.** | The Committee noted the information. |
|  | IS 9618 : 1980 Road Tankers for Liquefied Petroleum Gas | The Committee noted the information. | The standard has been archived.  The Committee may **NOTE.** | The Committee noted the information. |
|  | 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.** | The Committee noted the information. |
|  | IS 6034 : 1989 Insulating oil conditioning plants - specification (first revision) | Item 5.1, Sl No.4 | 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**. | The Committee noted the information. |
|  | 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**. | The Committee noted the information. |
|  | 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**. | The Committee noted the information. |
|  | 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**. | The Committee noted the information. |
|  | 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**. | The Committee noted the information. |
|  | 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**. | The Committee noted the information. |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** | **Committee decision during 28th Meeting** |
| 1. | Method Of Determination of Grindability Index | Vide Item 5.1, Sl No. 2 | Vide Item 5.1, Sl No. 2 | Vide Item 5.1, Sl No. 2 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Subject / IS** | **Committee decision during 27th Meeting** | **Present Status** | **Committee decision during 28th Meeting** |
|  | 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**. | The Committee decided to archive the standard. |
|  | 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**. | The Committee decided to archive the standard. |
|  | IS 13159 (PART 1) 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**. | The Committee requested MS to expedite and prepare the draft for wide circulation. |
|  | 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**. | The Committee requested MS to inform the status in the next meeting. |

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

The Committee noted the information.

**ITEM 7 NEW SUBJECT PROPOSAL RECEIVED**

**a)** 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 requested MS to consult with Head(MED) for the new subject proposal and inform the status by the next meeting.

**ITEM 8 Programme of Work**

The Committee noted the information.

**ITEM 9 STATUS OF INDIAN STANDARDS**

**9.1 Quality Control Order**

The Committee noted the information.

**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 |

The Committee noted the information.

**9.3 BIS Domestic Licences**

The Committee noted the information.

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

The Committee noted the information.

**ITEM 10 INTERNATIONAL ACTIVITIES**

**10.1 Liaison with ISO TCs**

The Committee noted the information.

**10.2** The Committee noted the information.

**10.3** The Committee noted the information.

**10.4 Upcoming ISO Mirror Committee Meetings**

The Committee noted the information.

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

Shri Rajiv Gupta of Advance Valves Global, Noida submitted his nomination as expert for following SCs:

1. ISO/TC153/ SC 1 "Design, manufacture, marking and testing" and

2. ISO/TC153/ SC 2 "Valve actuator attachment"

The Committee approved his nomination as subject expert to the above SCs of ISO/TC 153. The Committee also approved the level of interest for projects as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **ISO committee/Sub-committee/WG number** | **ISO committee/Sub-committee/WG Title** | **Experts nominated** | **Interest Level** |
| ISO/TC153/ SC 1 | "Design, manufacture, marking and testing" | Shri Rajiv Gupta of Advance Valves Global, Noida | M |
| ISO/TC153/ SC 2 | "Valve actuator attachment" | Shri Rajiv Gupta of Advance Valves Global, Noida | M |
| ISO TC 153/WG 1 | “Actuators and valve actuators attachments” | 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.

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

The Committee noted the information.

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

The Committee noted the information.

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

The Committee noted the information.

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

The Committee noted the information.

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

The Committee noted the information.

**Item 16 CREATION OF POOL OF EXPERTS**

The Committee noted the information.

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

**17.1** The Committee noted the information.

**17.2 Guidelines for Research & Development Projects**

The Committee noted the information.

**17.3 Exposure Visits by Member Secretary**

The Committee noted the information.

**ITEM 18 RECENT INITIATIVES IN THE STANDARD DEVELOPMENT PROCESS OF BIS**

**18.1 Green Initiative by BIS**

The Committee noted the information.

**18.2 Interaction with SDO**

The Committee noted the information.

**18.3 Training of Committee Members**

The Committee noted the information.

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

The Committee noted the information.

**ITEM 20 GUIDELINES FOR INTENSIFYING PARTICIPATION OF STAKEHOLDERS IN BIS TECHNICAL COMMITTEE MEETING**

The Committee noted the information.

**ITEM 21 NEW INITIATIVES IN STANDARDIZATION**

**a) DOWNLOADING OF INDIAN STANDARDS (FREE OF COST)**

The Committee noted the information.

**b) NATIONAL INSTITUTE FOR TRAINING IN STANDARDIZATION (NITS)**

The Committee noted the information.

**c) BIS ACTIVITIES ON SOCIAL MEDIA**

The Committee noted the information.

**d) ONE NATION ONE STANDARD**

The Committee noted the information.

**e) MEMORANDUM OF UNDERSTANDING WITH EMINENT INSTITUTES**

The Committee noted the information.

**ITEM 22 OTHER ACTIVITIES/INFORMATION**

**a) WTO-TBT ENQUIRY POINT**

The Committee noted the information.

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

The Committee noted the information.

**ITEM 23 SUSTAINABILITY PERSPECTIVE IN INDIAN STANDARDS**

The Committee noted the information.

**ITEM 24 UNECE GENDER RESPONSIVE STANDARDS DECLARATION**

The Committee noted the information.

**ITEM 25 ACCESSIBILITY**

The Committee noted the information.

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

Vide Item 4.

**ITEM 25 ANY OTHER BUSINESS**

There being no other business, the meeting ended with a hearty vote of thanks to the Chair and the members present.

**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 **2.2.5**)

**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.8**)

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

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **IS No.** | **Title** |
| 1. | IS 10605 | Steel Globe Valves (Flanged and Butt Welded Ends) for Petroleum, Petrochemical and Allied Industries — Specification (First Revision) |
| 2. | IS 10874 | Specification for felsite grinding media and liner stones |
| 3. | IS 14404 | Process equipment - Recommendations on design pressure and temperature |
| 4. | IS 5036 | Specification for filter presses, recessed plate type, and plate and frame type |
| 5. | IS 6838 | Dimensions for `O' rings and grooves for vacuum flanges |
| 6. | IS 7366 | Specification for edge type filters required for filtration of oils of straight mineral type |
| 7. | IS 9705 (Part 1 ) | Specification for quick release coupling for vacuum pipe lines: Part 1 screwed couplings type b |
| 8. | IS 4682 (Part 7) | Code of practice for lining of vessels and equipment for chemical processes: Part 7 corrosion and heat resistant metals |
| 9. | IS 4682 (Part 9) | Code of practice for lining of vessels and equipment for chemical processes: Part 9 titanium |
| 10. | IS 4682 (Part 10) | Code of practice for lining of vessels and equipment for chemical processes: Part 10 brick and tile |
| 11. | IS 9866 | Marking system for valves |
| 12. | IS 4864 : 1968 to IS 4870 : 1968 | Specification For Shell Flanges For Vessels And Equipment |
| 13. | IS 10989 : 1984 | Specification for cast or forged steel check valves (Flanged Or Butt Welding Ends) for petroleum petrochemicals chemicals and allied industries |

**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.

**ANNEX 5**

**Comments on draft of IS 9866/ MED/17/25636 Marking system for valves (First Revision)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| **SNo.** | **Basic Details** | **Clause/Subclause No.& Attachment** | **Paragraph No./Figure No./Table No.** | **Type of Comment** | **Comments/Suggestions along with Justification for the Proposed Change** | **Proposed Change/Modified Wordings** | **Remarks** | **Committee decision during 28th Meeting** |
| 1 | Name: Chandrakant Rajaram Kakade | 2 | 1 | Technical | "Table for valve markings" should include 20. Flow coefficient (Cv or Kv) |  |  | The Committee deliberated that flow coefficient and allowable differential pressure need not to be written on valves/identification plates but these are mentioned In datasheet of the valve. |
| Organisation: N/A | N/A |  |
| Email: crkakade@npcil.co.in |  | 21. Allowable differential pressure |
| Mobile: 9969728364 |  |  |
| Comment ID #: MED\_2024-09-239616 |  |  |

**ANNEX 6**

**Comments on draft of MED/17/26471 – Amendment no. 2 to IS 13095:2020 - Butterfly Valves for General Purposes (First Revision)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Basic Details** | **Clause/Subclause No.& Attachment** | **Paragraph No./Figure No./Table No.** | **Type of Comment** | **Comments/Suggestions along with Justification for the Proposed Change** | **Proposed Change/Modified Wordings** | **Remarks** | **Committee decision during 28th Meeting** |
|  | Name: Chandrakant Rajaram Kakade  Organisation: N/A  Email: crkakade@npcil.co.in  Mobile: 9969728364  Comment ID #: MED\_2024-09-235600 | 8 | 1 | Technical | Maximum full open velocity should be defined. | Maximum full open velocity for valves greater 300 NB shall be less than 4.9 m/s. |  | The maximum full open velocity for valves varies with applications. Maximum full open velocity depends on the pressure rating/maximum permissible working pressure of the valve which is defined in the standard. So, the Committee did not accept the comment. |
|  | 12 | 1 | Technical | Offset/Eccentricity in disc and shaft | Offset/Eccentricity |  | The eccentricity of the valve varies with the manufacturer but better leak tightness, the Committee decided to add the following paragraph under clause 12:  “For better leak tightness, double or triple eccentric valve may be provided.” |
|  |
| For better leak tightness in metal / soft seated butterfly valves, double or triple eccentric valve shall be provided. |
|  |  | 12 | 1 | Technical | Design feature shall be included | Design features: |  | 1. The Committee accepted Sl no. 1 proposal concerning safety and decided to add the following under clause 12:  “Shaft design shall be anti blowout proof design such that after removal of actuator, shaft shall remain in place withstanding the internal design pressure.”  2. The Committee did not accept the proposal. |
|  |  |
|  | 1. Shaft design shall be anti blowout proof design such that after removal of actuator, shaft shall remain in place withstanding the internal design pressure. |
|  |  |  |
|  | 2. Key of shaft and disc shall be on one side i.e. upsream or downstream such that it shall not see differential pressure across the disc. No through penetration for key in the disc shall be done. |
|  |  | 16 | 16.1 | General | Actuator sizes for valves to be included. "Operator" shall be changed to "Actuator". |  |  | The Committee deliberated that no change is needed as the terminology is widely used. So, it did not accept the proposal. |
|  |
|  |  | 10.1 | 1 | Editorial |  | Refer Table-1 column no. (6) |  | The Committee accepted the editorial change. |
|  |  |
|  | "Water Short" shall be modified as "Wafer Short" |
|  |  | 17.1 | 1 | Technical | Valve position vs flow resistance curves to be provided |  |  | The Committee deliberated that for control valves, the valve position vs flow resistance curves play important role. So, it decided to add the following new clause 16.4:  **16.4** When requested by the buyer, the manufacturer shall provide the valve position vs flow resistance curves. |
|  |
|  |  | 17.1 | 1 | Technical | Maximum head loss in full open position is required. |  |  | The Committee felt that head loss specification may not be specified due to nature of application. The time of operation cannot be standardized instead the manufacturer may specify the time of operation in the manual. So, the Committee did not accept the proposal. |
|  |  |
|  | Time of operation from full open to full close position shall be specified for actuated valves |
|  |  | 17.2 | 1 | Technical | Helium leak test may be included for services involving toxic / hazardous chemicals in which leakage of small amount can be dangerous to operating personnel. | Helium leak test is to be carried out with 50% Helium and Air mixture at 1.05 kg/cm2(g). Acceptable leak rate shall be based on mutual agreement between manufacturer and purchaser. |  | The Committee pointed out that the standard is for general purpose valves. So, it did not accept the proposal. |
|  |
|  |  | 17.3 | 1 | Technical | Seal leakage test with actuator is required. | Seal leak test shall be performed with actuator. |  | The Committee deliberated that the actuator may not be designed to sustain 1.1 times pressure for seat test. So, it did not accepted the proposal. |
|  |
|  |  | 17.3 | 1 | Technical | Bi-directional valve testing to be included in the standard. Leakage test in both direction is required for Bi-directional valves. |  |  | The Committee noted that the requirement has been taken care in line 8 of 17.3.1. |
|  |
|  |  | 23.1.2 | b | Editorial | Spelling corrcection is required | "No. of phrases" shall be corrected as "No. of phases" |  | The Committee accepted the editorial change. |
|  |  |