**भारतीय मानक ब्यूरो**

**BUREAU OF INDIAN STANDARDS**

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| **Meeting** | **Date and Time** | | **Venue** |
| 23rd meeting of Pumps Sectional Committee, MED 20 | 09 August 2023 (Wednesday) at10:30 AM | | Webex |
| *in joint session with* |  | |  |
| Agriculture and Domestic Pumps Subcommittee, MED 20:5 | | 16th Meeting | |
| Utility and Industrial Application Pumps Subcommittee, MED 20:6 | | 16th Meeting | |

**Chairperson:** Shri A. K. Nijhawan, In Personal Capacity

**Member Secretary**: Shri Aman Dhanawat, Scientist ‘B’, MED, BIS, New Delhi

**ITEM 0 WELCOME AND OPENING REMARKS**

**0.1** Welcome by Head, Mechanical Engineering Department.

**0.2** Opening remarks by the Chairperson.

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

The minutes of the 22nd Meeting of Pumps Sectional Committee, MED 20, held in joint session with 15th Meeting of Agriculture and Domestic Pumps Sub Committee, MED 20 : 5 & 15th Meeting of Utility and Industrial Application Pumps Sub Committee, MED 20 : 6 held on 11th January 2023 at Central Water and Power Research Station (CWPRS), Pune in physical mode, were circulated to the members vide our letter having Ref: MED 20/A-2.18 dated 3rd April 2023.

*No comments were received*.

*The Committee may formally confirm the minutes of the last meeting.*

**Item 2 REFORMS IN THE PROCESS OF STANDARDISATION**

A presentation has been prepared to showcase the process reforms that have taken place in the standardization process (Presentation enclosed).

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**Item 3 THE ROLLING ANNUAL ACTION PLAN FOR THE YEAR 2023-24**

Rolling annual action plan has been prepared and has been enclosed.

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**ITEM 4 ACTIONS ARISING OUT OF THE LAST MEETING**

**4.1** The summary of actions taken on the minutes of 22nd Meeting are given below, due to priority, some important following agenda points are to be discussed at first during the meeting:

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| --- | --- | --- | --- | --- | --- |
| **SlNo** | **\*Item No.** | **Decision taken during 21th Meeting** | **Action Taken on Minutes of 21th Meeting** | **Decision taken during 22nd Meeting** | **Action Taken on Minutes of 22nd** |
|  | **Item no. 2.2 Sl no. 2** | Committee discussed the amendments in brief that the basis of drafting the amendments was that according to the existing standards the minimum efficiency is very less, and the end user is not being benefited.  In view of the above, the amendments were drafted and were discussed and circulated with the members many times, so the minimum efficiency as defined in the draft amendments will remain same. However, Committee requested the following Panel to dispose off the comments received and provide the modified draft amendments to IS 8034, IS 9079, IS 14220 and IS 6595 (Part 1) within 2 weeks:  - Shri SL Abhyankar  - Shri R Birajdar  - Shri Rajendran  - Shri C Murugesan  - Shri Anil Akole  - Shri Utkarsh Chhaya  - Shri Sanjeev Chaudhary  - Shri AK Jain  - Shri Sudhir Mali  Committee further decided that the modified draft amendments as received may be circulated as wide circulation for the period of 30 days.  If no comments or any editorial comments were received then the above draft amendments may be sent for printing with the approval of Chairman MED 20.  If any technical comments are received, the same may be collated by Member Secretary and sent to above Panel for the disposal of comments.  Comments sent by KBL on 22/9/2022 about voltage variation was also discussed. It was agreed to incorporate same in new amendment. | As directed by the Committee, the modified draft amendments were received from the Panel dated 28.09.2022, and as decided by the Committee the draft amendments as received had been circulated as wide circulation dated 06.10.2022 for the period of 30 days, the last date for the comments was 07.11.2022.  During the wide circulation period the comments received were collated and shared with the Panel for their disposal.  The Panel meeting to dispose off the comments has been scheduled to be held dated 10.01.2023.  The Committee may note. | During the meeting Member Secretary informed that a panel meeting to dispose off the comments received was held dated 10.01.2023, following members attended the Panel meeting:  - Shri AK Nijhawan, Chairman MED 20  - Shri C Murugesan, Aquasub Engineering  - Shri KV Karthik, SIEMA  - Shri Sudhir Mali, Kirloskar Brothers Pvt. Ltd.  - Shri Sachin Bhandari, Shakti Pump  - Shri Rahul Patidar, Shakti Pump  - Shri Sanjeev Chaudhary, Grundfos Pumps  - Shri AK Jain, In personal capacity  - Representative of Laxmi Drunken Components Pvt Ltd.  During the Panel meeting, Panel discussed the comments in length and recommended the following:  a) Amendment no. 2 to IS 8034: 2018, Amendment no. 1 to IS 9079: 2018 and Amendment no. 1 to IS 6595 (Part 1): 2018 may be finalized after the incorporation of the comments and making necessary editorial changes.  b) Comment provided by M/S Shakti Pumps Pvt Ltd. on clause 16.4.1 (a) of draft Amendment no. 1 to IS 14220: 2018 regarding horizontal multistage pump may be discussed among the Committee members in the upcoming meeting to be held dated 11.01.2023.  The Committee noted the recommendation of the Panel and decided the following:  a) A Panel meeting to be convened to incorporate the comments in the Amendment no. 2 to IS 8034: 2018, Amendment no. 1 to IS 9079: 2018 and Amendment no. 1 to IS 6595 (Part 1): 2018 and modified amendments as provided by the Panel may directly be sent for publication with prior approval of Chairman MED 20.  b) The comment was discussed in length and Committee decided and requested the Panel to add ‘horizontal multistage’ in 16.4.1 (b), and after the incorporation of the comments the modified amendment as provided by the Panel may directly be sent for publication with prior approval of Chairman MED 20.  Committee further decided that to avoid any confusion the ‘Minimum Efficiency Index (MEI)’ may be replace with ‘Minimum Efficiency Level (MEL) in above amendments’.  It was agreed to conduct a Panel meeting on 13th January to discuss the all comments  and finalize the draft amendment with due consideration to the comments received. | As decided by the Committee the modified draft amendments to IS 8034: 2018, IS 9079: 2018, IS 14220: 2018, IS 6595 (Part 1): 2018 as received from Dr. C Murugesan were sent for publication with prior approval of Chairperson MED 20.  During the process of publication the standards with any active licence are to be sent to CMD III, to review the changes in the standards for its implications during certification process.  In view of the above, the amendments were sent to CMD III, and CMD III have provided their comments enclosed below, and circulated to all the Committee members dated 24 July 2023.    Committee may consider and decide. |
|  | **Item 2.3, S No 1** | Committee noted the information and decided that Member Secretary may provide the extract of the minutes of the previous meetings regarding this Agenda point for the information of the Committee. | During the 13th meeting of Sectional Committee, MED 20 held dated 4 September 2015 it was decided that to increase the participation in international standardization activity, Conveners of MED 20:5 and MED 20:6 subcommittees nominated the members to represent BIS in WG of IS/TC 115.  The Committee may note. | Committee noted the information and decided that member secretary to see from previous records and list out the members who have been previously nominated in WG of ISO/TC 115. | From the record of minutes of the previous meetings, it was found out that following members were nominated by the Committee in various ISO subcommittees and working groups:  1) nominations for ISO/TC 115/SC 2/WG 4 - Rotodynamic pumps - Hydraulic performance acceptance tests using a model pump :  Shri Chidambar Deshpande, KBL, and Shri G. Rajendran, CRI Pumps/ Shri Nirmal Tiwari  2) Shri I C Jain for ISO/TC 115/SC 3/WG 2 - Joint ISO/TC 115/SC 3 - ISO/TC 67/SC 6 WG: Positive displacement pumps for petroleum and natural gas industries  3) Shri Ravindra S Birajdar, Convener, MED 20:6 for ISO/TC 115/SC 3/WG 6 - Joint ISO/TC 115/SC 3 - ISO/TC 67/SC 6 WG: Shaft sealing systems for centrifugal and rotary pumps  4) Shri Uttkarsh Chhaya, M/s IPMA has been registered as ‘Expert’ in ISO/TC 115/SC 2/WG 2 - Rotodynamic pumps test codes.  The Committee may go through the scope, programme of work of ISO/TC 115, its Subcommittees and Working Groups ate **Item 10.4** and decide. |
|  |  |  |  |  | Following revised nominations were received from M/s Aquasub Group Pvt. Ltd. |

**4.2** The summary of actions taken on the minutes of the 22nd Meeting of Agriculture Pumps Sectional Committee, MED 20 held on 11th January 2023 at Central Water and Power Research Station (CWPRS), Pune in physical mode which were discussed, and decision taken, are given below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SlNo** | **\*Item No.** | **Decision taken during 21th Meeting** | **Action Taken on Minutes of 21th Meeting** | **Decision taken during 22nd Meeting** | **Action Taken on Minutes of 22nd** |
|  | **Item 2.1**  **Sl No. 2** | Member Secretary informed the Committee that a meeting with Conveners MED 20:5 and MED 20:6 held dated 26.07.2022, suggestions of the Conveners were shared with all the Committee members for their comments and suggestions dated 27.07.2022. Suggestions were received from International Copper Association only.  Committee noted the information and decided that Conveners to have meeting to prune the composition of MED 20 and its Subcommittees MED 20:6 and MED 20:7. Committee constituted the following Panel:  -Shri R Birajdar  -Shri G Rajendran  - Shri SL Abhyankar  -Shri Anil Akole  - Shri Utkarsh Chhayya  - Shri Anand Savaliya  Committee requested the Conveners to lead the Panel and provide the following within 3 weeks:  a) A list of organizations (Users, PSUs, Govt. organizations, i.e., except manufacturers) that may be contacted by respective BIS Branch Offices located at different locations for their active participation in the Committee work.  b) Provide their suggestions to increase the active participation of manufacturers in the Committee work.  c) Provide the list of organizations (0/3) which may be recommended to sent a letter to their respective higher authorities requesting them to respond within 15 days, if no response is received from their side by the above due date their membership from the Committee MED 20 and its Subcommittees may be withdrawn. | The meeting is yet to be convened. | Committee requested the Conveners to expedite and convene a meeting to review the composition of MED 20 and its subcommittees MED 20:5 and MED 20:6.  Committee further decided that a letter may be written to concerned branch offices of BIS, requesting them to recommend young technical members with whom they are meeting during the inspections, to co-opt them in the Committee. | The meeting will be convened in due course of time. |
|  | — | The Committee noted the information and decided the revision draft of IS 12225 and IS 6595 (Part 2) may be circulated as wide circulation for the period of 30 days.  If no comments or any editorial comments were received then above draft may be sent for printing with the approval of Chairman MED 20.  If any technical comments are received, the same may be collated by Member Secretary and sent to following Panel for the disposal of comments:  1. SH. C. MURUGESAN, AQUASUB ENGINEERING, COIMBATORE. (Convener)  2. SRI K.V. KARTIK,SIEMA,COIMBATORE.  3. SH YOGESH MISTRI, INDIAN PUMP MFRS ASSOCIATION  4. SHRI SUDHIR MALI, KBL.  5. SH ANAND P SAVALIA, RAJKOT ENGG ASSOCIATION, RAJKOT. | **1)** As directed by the Committee the revision draft of IS 12225 and IS 6595 (Part 2) were circulated as wide circulation dated 31.08.2022 and 19.10.2022 respectively for the period of 30 days.  It may be noted that comments (from manak manthan) received on revision draft of IS 12225 were discussed during the Panel meeting held dated 03.10.2022. The recommendation of the Panel was circulated to all the Committee members dated 13.10.2022 for 1 week. After no comment was received, the above draft has been sent for publication with the approval of Chairman MED 20 dated 04.11.2022.  **2)** Rajkot Branch office conducted a Manak Manthan on revision draft of IS 6595 (Part 2), comments received are enclosed in the email with agenda.  The Committee may consider. | 1) The Committee noted the information and decided that after publication of the standards a complementary copy may be shared with all the Committee members.  2) The Committee was of the view that the comments received on IS 6595 (Part 2) are related to the IS 11346.  Committee requested ERDA and Rajkot Engineering Association to take up the revision of IS 11346 and go through the above comments for their incorporation in revision of IS 11346. ERDA and Rajkot Engineering Association agreed for above and informed that by April 2nd week they will provide the revision draft of IS 11346 incorporating above comments also.  Committee further decided that revision draft of IS 6595 (Part 2) may be sent for publication. | 1) Revision drafts of IS 12225 and IS 6595 (Part 2) are still under publication.  2) Editable soft copy of IS 11346 and the comments were circulated to ERDA and REA dated 20 Jan 2023 and 14 June 2023.  Revision draft is awaited. |
|  | — | Committee noted the information and discussed each point in brief.  Committee informed that requirement of peripheral impeller pumps and centripetal pumps are covered under IS 8418 and IS 8472 and decided that there is no need to formulate any new standard on above subjects as proposed by Member Secretary.  Committee informed that requirements of Horizontal Split Case pumps are covered under the revision draft of IS 5120 and decided that there is no need to formulate any new standard on above subjects as proposed by Member Secretary.  Committee further discussed regarding the scope of BIS certification of vertical turbine pumps under IS 1710. Committee was of the view that there are number of varieties under vertical turbine pumps (3 m3 to 1 lakh m3, and with the material of construction of different part may vary). Committee decided to keep this point at abeyance for the time being, and requested the Conveners MED 20:5 and MED 20:6 to look into the same and provide the details about the practices followed outside the India. | Conveners MED 20:5 and MED 20:6 to update. | Convener MED 20:6 informed that the requirements of horizontal split case pumps are have been covered in IS 5120. Committee noted the information and decided that Shri KV Karthik, SIEMA may go through the revision draft of IS 5120 to check the requirements of horizontal split case pumps covered under revision draft of IS 5120, and provide his comments/suggestions.  If no technical comment received the above draft may be circulated as wide circulation for the period of 30 days. | See action at **Item 4.4 Sl no. 1** below. |
|  |  |  | A new work item proposal (NWIP) was received on DC Water Pump, details of the proposal is enclosed in the mail with the Agenda. | Committee noted the information and decided that this NWIP may be transferred to MED 20:7 subcommittee for their review and suggestions, and based on the suggestions received and discussion with Convener MED 20:7 the above NWIP may be transferred to ETD 15. | AS directed by the Committee the NWIP has been sent to Subcommittee MED 20:7 for further necessary course of action. |

\* The Item number refers to the proceedings of the last meeting of MED 20.

**4.3** The summary of actions taken on the minutes of the 15th Meeting of Agriculture and Domestic Pumps Sub Committee, MED 20 : 5 held on 11th January 2023 t at Central Water and Power Research Station (CWPRS), Pune in physical mode which were discussed, and decision taken, are given below:

| **Sl No** | **\*Item No.** | **Decision taken during 14th Meeting** | **Action Taken on Minutes of 14th Meeting** | **Decision taken during 15th Meeting** | **Action Taken on Minutes of 15th Meeting** |
| --- | --- | --- | --- | --- | --- |
|  | **Item no. 2.2 Sl no. 1** | The Committee noted the information and decided the draft amendment to IS 17292: 2020 may be circulated as wide circulation for the period of 30 days.  If no comments or any editorial comments were received then above draft may be sent for printing with the approval of Chairman MED 20.  If any technical comments are received, the same may be collated by Member Secretary and sent to following Panel for the disposal of comments:  - Shri SL Abhyankar  - Shri R Birajdar  - Shri Rajendran  - Shri C Murugesan  - Shri Anil Akole  - Shri Utkarsh Chhaya  - Shri Sanjeev Chaudhary  - Shri AK Jain  - Shri Sudhir Mali | The amendment no. 1 to IS 17292: 2020 has been drafted and is yet to be circulated as wide circulation. | Committee noted the information. | To be wide circulated |
|  | Item no. 6.1 | 1) Committee noted the information and decided that after the publication of IS 10805, a soft copy of same may be circulated to all the Committee members for their perusal.  2) Committee noted the information and decided that after incorporating the comments in the revision draft of IS 1150, the above draft may be sent for publication. The Committee further authorized the Member Secretary to make any necessary editorial changes.  3) Committee noted the information.  4) Committee noted the information and decided that the comments received may be collated by Member Secretary and send to the following Panel for the disposal of comments :  1. SH. C. MURUGESAN, AQUASUB ENGINEERING, COIMBATORE. (Convener)  2. SRI K.V. KARTIK,SIEMA,COIMBATORE.  3. SH YOGESH MISTRI, INDIAN PUMP MFRS ASSOCIATION  4. SH SUDHIR MALI, KBL.  5. SH ANAND P SAVALIA, RAJKOT ENGG ASSOCIATION, RAJKOT. | **1)**The Committee may note that comments were received from CMD III, BIS on revision draft of IS 10805, comments were discussed during the Panel meeting held dated 03.10.2022. The recommendation of the Panel was circulated to all the Committee members dated 13.10.2022 for 1 week. After no comment was received, the above draft has been sent for publication with the approval of Chairman MED 20 dated 04.11.2022.  The draft revision has been published as IS 10805: 2022. The complimentary of the standard has been circulated to all the Committee members.  **2)** As directed revision draft of IS 11501 has been sent for publication.  **3)** The revision draft of IS 11745 is yet to be prepared.  **4)** The comments received on IS 9694 (Part 1 to 4) were discussed during the Panel meeting held dated 03.10.2022. The recommendation of the Panel was circulated to all the Committee members dated 13.10.2022 for 1 week. After no comment was received, the above drafts have been sent for publication with the approval of Chairman MED 20 dated 04.11.2022. | 1) The Committee noted the information.  2) Committee noted the information.  3) The Committee noted the information and decided that this standard may be allocated to Shri Utkarsh Chhaya, Shri Yogesh Mistri and representatives from Roto Pumps and Tushaco Pumps.  Committee decided that a letter may be written to Roto Pumps and Tushaco Pumps requesting them to provide their nominations for MED 20 and its subcommittees.  4) The Committee noted the information and decided that after publication of the standards a complementary copy may be shared with all the Committee members. | 3) An invitation letter to Roto Pumps and Tushaco Pumps (Circor) requesting them to become the Committee members and provide their nominations for MED 20 and its subcommittees has been sent, their response is awaited. |

\* The Item number refers to the proceedings of the last meeting of MED 20 : 5.

**4.4** The summary of action taken on the minutes of the 15th Meeting of Utility and Industrial Application Pumps Sub Committee, MED 20 : 6 and decisions taken are given below:

| **S No** | **\*Item No.** | **Decision taken during 14th Meeting** | **Action Taken on Minutes of 14th Meeting** | **Decision taken during 15th Meeting** | **Action Taken on Minutes of 15th Meeting** |
| --- | --- | --- | --- | --- | --- |
|  | **Item 2.3, S No 4** | Committee noted the information and requested the Convener of the following Panel to convene a Panel meeting to dispose off the comments and provide the modified draft by the end of August 2022:  1. SH. R.S. BIRAJDAR, KBL (Convener) 2. SH. I. C. JAIN, FLOWMORE LIMITED, GURGAON 3. SH VASANT GODBOLE, KBL, PUNE. 4. SHRI GOTE KSB PUMPS LIMITED, PUNE 5. SH MANOJ BAFNA, WILO MATHER AND PLATT PUMPS LTD; PUNE  Convener agreed for the same. | Panel meeting is yet to be convened, Convener MED 20:6 to update for revision of IS 5120. | Convener MED 20:6 informed that the requirements of horizontal split case pumps are have been covered in IS 5120. Committee noted the information and decided that Shri KV Karthik, SIEMA may go through the revision draft of IS 5120 to check the requirements of horizontal split case pumps covered under revision draft of IS 5120, and provide his comments/suggestions.  If no technical comment received the above draft may be circulated as wide circulation for the period of 30 days. | The draft revision of IS 5120 was circulated to Shri KV Karthik dated 3 April 2023 for comments.  Comments are awaited. |

\* The Item number refers to the proceedings of the last meeting of MED 20 : 6.

**ITEM 5 SCOPE AND COMPOSITION OF COMMITTEE**

**5.1 Scope**

1. Formulation of standards on components, equipment, methods of tests and code of practices for different type of pumps, excluding handpumps.
2. Co-ordination of work with ISO/TC 115 Pumps.

*The Committee may propose any addition/deletion/modification required in the scope.*

**5.2 Composition of Committee**

**5.2.1** The present composition of Pumps Sectional Committee MED 20 is given at **Annex-1A**. The list shows the attendance of the members in the last three consecutive meetings along with category wise distribution.

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

**5.2.2** The present composition of Agriculture and Domestic Pumps Sub Committee, MED 20:5 is given at **Annex-1B**. The list shows the attendance of the members in the last three consecutive meetings along with category wise distribution.

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

**5.2.3** The present composition of Utility and Industrial Application Pumps Sub Committee, MED 20:6 is given at **Annex-1C**. The list shows the attendance of the members in the last three consecutive meetings along with category wise distribution.

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

**5.2.4** The present composition of Solar Photovoltaic Water Pumping System Sub Committee, MED 20:7 is given at **Annex-1D**. The list shows the attendance of the members in the last three consecutive meetings along with category wise distribution.

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

**5.3** Request for co-option in the Committee.

Following new co-option request is received from M/s Waterman Pumps Pvt Ltd.



*The Committee may please decide.*

**5.4** The following directions have been received from the Competent Authority of the Bureau for reviewing the composition of the Sectional Committee:

1. Major Government purchasing organisations like DGS&D, RDSO, CPWD, Defense etc. are to be given representation in the committees wherever applicable.
2. Examine the justification and need for continuation of a member in an individual capacity who is continuing for more than six years in a sectional committee.
3. New members are to be co-opted who are expected to contribute to emerging new technology.
4. In case a representative of the concerned organisation is not attending the meeting regularly or not continuing even by correspondence, the organisation may be informed for substituting their member.
5. Members who are represented in individual capacity, the continuation of their membership is to be considered on the basis of their past attendance and contribution.
6. Efforts should be made to include representatives of different product segments as per the scope of the committee.

*The committee may please note.*

**5.5** The desire of the Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India, which is the Controlling Ministry of the Bureau that the composition of Sectional Committees be reviewed to replace the persons who are continuing for longer periods, to co-opt the members/organisations which are capable of contributing in emerging new technologies and new areas of work and strengthof the manufacturers should be restricted to 1/3 of the total strength of the Technical Committees.

*The committee may please note.*

**5.6** As per the decision taken by the Controlling Ministry, the composition of all sectional committees is to be reviewed periodically after a period of three years and efforts are to be made to keep the strength of committee optimum. New members may be co-opted where necessary. It is desired to have functionally efficient, vibrant and participative technical committees. The Committee may deliberate about the continuance of those members who are neither attending the meeting, nor contributing to the work of the committee by way of sending comments. Nomination of such members may be recommended for withdrawal to Mechanical Engineering Division Council (MEDC).

*The committee may please note.*

**5.7** Search Committee

As directed by the competent authority a Search Committee may be formed that will review the composition of the Committee for active participation of the members and infuse fresh blood in the Committee.

**ITEM 6 DRAFT STANDARDS/AMENDMENTS**

**6.1 Docs in Development**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **IS Number** | **IS Title** | **Document stage** |
|  | MED/20/20962  IS 6595 : Part 2: 1993 | Horizontal centrifugal pump for clear cold water part 2 general purpose other than agricultural and rural water supply specification | F-Draft |

*The committee may please note.*

**6.2 Docs in Print**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **IS Number** | **IS Title** | **Document stage** |
|  | MED/20/20658  IS 9079: 2018 | Amendment No. 1 To Is 9079 : 2018 Monoset Pumps For Clear, Cold Water For Agricultural And Water Supply Purposes — Specification | Ready for Gazette |
|  | MED/20/20656  IS 8034: 2018 | Amendment No. 2 To Is 8034 : 2018 Submersible Pumpsets — Specification | Ready for Gazette |
|  | MED/20/20659  IS 6595 : Part 1: 2018 | Amendment No. 1 To Is 6595 (Part 1) : 2018 Horizontal Centrifugal Pumps For Clear, Cold Water — Specification Part 1 Agricultural And Rural Water Supply Purposes | Ready for Gazette |
|  | MED/20/18836  IS 11501: 1986 | Specification For Engine Monoset Pumps For Clear Cold Water For Agricultural Purposes | Ready for Gazette |
|  | MED/20/20657  IS 14220: 2018 | Amendment No. 1 To Is 14220 : 2018 Openwell Submersible Pumpsets — Specification | Ready for Gazette |
|  | MED/20/20405  IS 12225: 1997 | Centrifugal Jet Pump Specification | Ready for Gazette |

*The committee may please note.*

**ITEM 7 REVIEW OF PUBLISHED INDIAN STANDARD**

**7.1** 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.

**7.2 Standards Due For Jan 2023 to Mar 2024**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SL NO.** | **IS NO.** | **IS TITLE** | **LAST RE-AFFIRMATION YEAR** | **DUE DATE** | **NO. OF REVIEWS** | **STATUS** |
| 1 | [IS 10804 : 2018](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/1698) | Recommended pumping systems for agricultural purposes: Part 1 surface pumps (Third Revision) | 0 | May, 2023 | 0 | No review done |
| 2 | [IS 12469 : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/3828) | Specification of pumps for stationary firefighting installations (First Revision) | 0 | March, 2024 | 0 | No review done |
| 3 | [IS 12699 : 1989 Reviewed In : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/4135) | Selection, installation, operation and maintenance of jet centrifugal pump combination - Code of practice | 2019 | March, 2024 | [1](https://www.services.bis.gov.in/php/BIS_2.0/Reaffirmation/standard_review.php?ID=NDEzNQ%3D%3D) | Initial review circulated to members |
| 4 | [IS 14536 : 2018](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/6446) | Selection, installation, operation and maintenance of submersible pumpset - Code of practice (First Revision) | 0 | July, 2023 | [1](https://www.services.bis.gov.in/php/BIS_2.0/Reaffirmation/standard_review.php?ID=NjQ0Ng%3D%3D) | Initial review circulated to members |
| 5 | [IS 8418 : 1999 Reviewed In : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/15579) | Pumps - Centrifugal self-priming - Specification (First Revision) | 2019 | March, 2024 | [1](https://www.services.bis.gov.in/php/BIS_2.0/Reaffirmation/standard_review.php?ID=MTU1Nzk%3D) | Decision taken to Reaffirm and Revise |
| 6 | [IS 8472 : 2019 Reviewed In : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/15644) | Centrifugal regenerative pumps for clear, cold water - Specification (Second Revision) | 2019 | March, 2024 | 0 | No review done |
| 7 | [IS 9137 : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/16407) | Code for Hydraulic Performance Acceptance Tests for Centrifugal, Mixed and Axial Flow Pumps — Class C ( First Revision ) | 0 | March, 2024 | 0 | No review done |
| 8 | [IS/ISO 5199 : 2002 Reviewed In : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/21137) | Technical specifications for centrifugal pumps - Class II | 2019 | March, 2024 | 0 | No review done |
| 9 | [IS 10804 (Part 2) : 2018](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/22970) | Recommended pumping systems for agricultural purposes: Part 2 submersible pump sets (Third Revision) | 0 | May, 2023 | 0 | No review done |
| 10 | [IS/ISO/TR 17766 : 2005 Reviewed In : 2019](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/23938) | Centrifugal pumps handling viscous liquids - Performance corrections | 2019 | March, 2024 | 0 | No review done |

*The Committee may please note.*

**7.3 Pre-2000 documents under review by Technical Department**

The BIS management has decided to revise the old standards which are Pre-2000 and requested the relevant technical committees to take up the revision of the standard.

|  |  |  |  |
| --- | --- | --- | --- |
| **SL NO.** | **IS NO.** | **IS TITLE** | **Present Status** |
|  | [IS 5120 : 1977](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTE4Nzk%3D) | Technical requirements for rotodynamic special purpose pumps (first revision) | See item 2.3, S No 4 |
|  | [IS 5639 : 1970](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTI0Mjc%3D) | Specification for pumps handling chemicals and corrosive liquids | Amalgamated with revision of IS 5120 |
|  | [IS 5659 : 1970](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTI0NDk%3D) | Specification for pumps for process water | Amalgamated with revision of IS 5120 |
|  | [IS 6536 : 1972](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTM0MDA%3D) | Specification for pumps for handling volatile liquids | Amalgamated with revision of IS 5120 |
|  | [IS 6595 (Part 2) : 1993](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTM0NTY%3D) | Horizontal centrifugal pumps for clear cold water part 2 general purpose other than agricultural and rural water supply - specification (second revision) | WC completed |
|  | [IS 6596 : 1972](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTM0NTc%3D) | Specification for pumps for handling paper stock | Amalgamated with revision of IS 5120 |
|  | [IS 8418 : 1999](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTU1Nzk%3D) | Pumps - centrifugal self-priming - specification (first revision) | Decision taken to Reaffirm and Revise |
|  | [IS 9201 : 1987](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTY1MTI%3D) | Specification for pumps for handling slurry (first revision) | Review document circulated to members |
|  | [IS 9542 : 1980](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTY5Mzc%3D) | Specification for horizontal centrifugal monoset pumps for clear cold fresh water | Draft pending |
|  | [IS 9694 (Part 1) : 1987](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTcxMTE%3D) | Code of practice for the selection installation operation and maintenance of horizontal centrifugal pumps for agricultural applications part 1 selection (first revision) | Published |
|  | [IS 9694 (Part 2) : 1980](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTcxMTI%3D) | Code of practice for the selection installation operation and maintenance of horizontal centrifugal pumps for agricultural applications part 2 installation | Published |
|  | [IS 9694 (Part 3) : 1980](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTcxMTM%3D) | Code of practice for the selection installation operation and maintenance of horizontal centrifugal pumps for agricultural applications part 3 operation | Published |
|  | [IS 9694 (Part 4) : 1980](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MjA3NjY%3D) | Code of practice for the selection installation operation and maintenance of horizontal centrifugal pumps for agricultural applications part 4 maintenance | Published |
|  | [IS 10572 : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTQxMg%3D%3D) | Methods of sampling for pumps | Circulated to all the Committee members |
|  | [IS 10596 (Part 1) : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTQzNg%3D%3D) | Code of practice for selection installation operation and maintenance of pumps for industrial applications part 1 selection | Amalgamated with revision of IS 5120 |
|  | [IS 10596 (Part 2) : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTQzNw%3D%3D) | Code of practice for selection installation operation and maintenance of pumps for industrial applications part 2 installation | Decision taken to Reaffirm and Revise |
|  | [IS 10596 (Part 3) : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTQzOA%3D%3D) | Code of practice for selection installation operation and maintenance of pumps for industrial applications part 3 operation | Decision taken to Reaffirm and Revise |
|  | [IS 10596 (Part 4) : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTQzOQ%3D%3D) | Code of practice for selection installation operation and maintenance of pumps for industrial applications part 4 maintenance | Decision taken to Reaffirm and Revise |
|  | [IS 10981 : 1983](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MTk2Ng%3D%3D) | Code of acceptance test for centrifugal mixed flow and axial pumps - class B | Decision taken to revised and reaffirm |
|  | [IS 11501 : 1986](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MjYxMw%3D%3D) | Specification for engine monoset pumps for clear cold fresh water for agricultural purposes | Ready for Gazette |
|  | [IS 11745 : 1986](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MjkwMw%3D%3D) | Technical supply conditions for positive displacement pumps - reciprocating | Decision taken to Reaffirm and Revise |
|  | [IS 12225 : 1997](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=MzUwMA%3D%3D) | Centrifugal jet pump - specification (first revision) | Ready for Gazette |
|  | [IS 12699 : 1989](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=NDEzNQ%3D%3D) | Selection installation operation and maintenance of jet centrifugal pump combination — code of practice | Review document circulated to members |
|  | [IS 13139 : 1992 ISO 3661: 1977](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=NDY1Mw%3D%3D) | End - suction centrifugal pumps — baseplate and installation dimensions | No change in base standard |
|  | [IS 13518 : 1992 ISO 2858: 1975](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=NTE3NA%3D%3D) | End - suction centrifugal pumps rating 16 bar - designation nominal duty point and dimensions | No change in base standard |
|  | [IS 13538 : 1993 ISO 5198: 1987](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=NTE5Mw%3D%3D) | Centrifugal mixed flow and axial pumps - code for hydraulic performance tests — precision class | No change in base standard |
|  | [IS 14263 : 1995](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/standard_review/Standard_review/Isdetails?ID=NjAxOA%3D%3D) | Tapers for agricultural pumping systems - specification | Review document circulated to members |

*The Committee may dispose of the comments and approve the draft documents for wide-circulation for two months as well as printing, in case no comments are received in wide-circulation.*

**ITEM 8 COMMENTS ON PUBLISHED STANDARDS**

**8.1** No comments received.

**ITEM 9 SELECTION OF SUBJECTS/NEW SUBJECTS**

**9.1** 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.

1. Whether the subject is financed by the proposer;
2. Sale ability of the standard;
3. Standards shall be user friendly;and
4. 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 in **Annex-2**. 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 10 INTERNATIONAL ACTIVITIES**

**10.1** BIS, as a founding member of International Organization for Standardization (ISO), actively participates in standardization activities at international level including participation in its policy making bodies like Development Committee (DEVCO), Committee on Conformation Assessment (CASCO) and Committee on Consumer Policy (COPALCO). In the current global economic scenario, standardization has become necessary as emerging of concept like Technical Barriers to Trade Agreement(TBT), issued by WTO, which tries to ensure that regulations, standards, conformity assessment procedures do not create unnecessary obstacles to trade internationally. Over **203** ISO technical committees are engaged in the formulation of international standards with the consensus of all member countries.

*The committee may please note.*

**10.2** India is ‘P’ member of ISO/TC 115 – Pumps**.** 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. Currently, following ballots (where India is ‘P’ member) are under circulation:**

*The committee may please note.*

**10.3** India has established itself as a significant manufacturing hub and has a considerable stake in international trade. To ensure our active involvement in trade-related norms set by different countries, it is essential for us to participate in the standardisation process of ISO and provide input for the betterment of our industries. Standardisation is the key to influence these norms, and a **closer examination of new work item proposals** received from ISO is necessary for us to standardise products at the international level. This activity will benefit Indian manufacturers at all levels to keep up with or enter into international level trade, ultimately improving their competitiveness in the global market. Currently no NWIPs ballot received from ISO, however NWIPs already under development. Details of this work item is given below:

*The committee may please note.*

**10.4** List of International Standards formulated by ISO/TC 115 & its SC’s ISO/TC 115/SC 1, ISO/TC 115/SC 2 and ISO/TC 115/SC 3 can be accessed with following links respectively:

[**https://www.iso.org/committee/51766.html**](https://www.iso.org/committee/51766.html)

[**https://www.iso.org/committee/51776.html**](https://www.iso.org/committee/51776.html)

[**https://www.iso.org/committee/51790.html**](https://www.iso.org/committee/51790.html)

[**https://www.iso.org/committee/51796.html**](https://www.iso.org/committee/51796.html)

*The committee may please note.*

**10.5** India is 'P' (Participating Member) in ISO/TC 115 – Pumps. The list of ISO Standards published by ISO/TC 115 and its Subcommittees are given at **Annex 3**. 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.

**10.6** The present membership status of BIS on the Pump Committee/Subcommittees is given below:

|  |  |  |
| --- | --- | --- |
| **ISO/TC 115** | **Pumps** | **P** |
| ISO/TC 115/SC 1 | Dimensions and Technical Specifications of pumps | **P** |
| ISO/TC 115/SC 2 | Methods of Measurement and Testing | **P** |
| ISO/TC 115/SC 3 | Installation and Special Application | **P** |

*The Committee may please note.*

**ITEM 11 PROGRAMME OF WORK**

**11.1** The present program of work of the Pumps Sectional Committee, MED 20 can be accessed through the link below. The committee has formulated 50 Indian Standards.

<https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/pow_new>

*The committee may please note.*

**11.2** Status of Standards under BIS Product Certification Scheme.

The following Standards formulated by MED 20 are under BIS Product Certification Scheme:

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **IS No.** | **Title** | **No. of BIS Licenses** |
|  | 6595 (Pt 1) : 2018 | Horizontal centrifugal pumps for clear, cold water: Part 1 Agricultural and rural water supply purposes | 23 |
|  | 6595 (Pt 2) : 1993 | Horizontal centrifugal pumps for clear, cold water: Part 2 General purpose (other than agricultural and rural water supply) - Specification | 1 |
|  | 8034:2018 | Submersible pumpsets | 535 |
|  | 8418:1999 | Horizontal Centrifugal self-priming pumps | 2 |
|  | 8472:2019 | Regenerative pumps for clear cold water | 126 |
|  | 9079:2018 | Electric moonset pumps for clear, cold water for Agricultural and water supply purposes | 86 |
|  | 10805:2022 | Foot-Valves, Reflux Valves or Non Return Valves and Bore Valves to be Used in Suction Lines of Agricultural Pumping Systems —Specification (Second Revision) | 11 |
|  | 11501:1986 | Engine monoset pumps for clear, cold, fresh water for agriculture purposes | 15 |
|  | 12225:1997 | Centrifugal Jet pump | 14 |
|  | 14220:2018 | Openwell submersible pumpsets | 261 |
|  | IS 17018 (Part 1) 2022 | Solar Photovoltaic Water Pumping Systems Part 1 Centrifugal Pumps Specification | 2 |

*The committee may please note.*

**ITEM 12 LETTER OF APPRECIATION TO COMMITTEE MEMBERS**

Objective: To recognize significant contribution 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:

a) Leadership in initiating a project.

b) Technical inputs provided on standard(s) developed including during preparation of the draft standard.

c) Draft document(s) developed (new Indian Standards/revision of existing Indian Standards).

d) Technical comments/inputs provided on ISO/IEC documents/deliverables or major contributions made in developing International Standards.

e) Exceptional contributions in leading standardization projects at national/international level.

f) Initiatives taken/contributions in standards promotion work through workshops, conferences, seminars and trainings.

The Committee may please note.

**Item 13 NATIONAL AND INTERNATIONAL LEVEL EVENTS TO BE PARTICIPATED IN**

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

**Item 14 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 15 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.

**Item 16 RESEARCH PROJECT TO BE TAKEN UP FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS**

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

**ITEM 17 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:

**17.1 Green Initiative by BIS**

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

*The committee may please note.*

**17.2 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.*

**ITEM 18 GUIDELINES FOR MEMBERS OF TECHNICAL COMMITTEES**

**18.1** 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.

*The committee may please note.*

**ITEM 19 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.

*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, 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 certification 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 following institutes of eminence for collaboration in the field of standardisation and conformity assessment:

* Indian Institute of Technology, Delhi
* Indian Institute of Technology, Bombay
* Indian Institute of Technology, Kanpur
* Indian Institute of Technology, Madras
* Harcourt Butler Technical University, Kanpur
* Northern India Textile Research Association, Ghaziabad
* Indian Institute of Technology, Roorkee

*The committee may please note.*

**ITEM 20 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; and
* 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 21 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 22 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 23 DATE AND PLACE FOR THE NEXT MEETING**

*The Committee may please decide the date and place for the next meeting.*

**ITEM 24 ANY OTHER BUSINESS**

*The committee may please decide.*

**Annex 1A**

(*Refer Item* 5.2.1)

**COMPOSITION OF PUMPS SECTIONAL COMMITTEE, MED 20**

|  |  |  |
| --- | --- | --- |
| **No. of Meeting** | **Date** | **Place** |
| 22nd | 11th January 2023 | Central Water and Power Research Station (CWPRS), Pune in physical mode |
| 21st | 28 July 2022 | New Delhi (WebEx) |
| 20th | 15 Dec 2021 | New Delhi (WebEx) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Organisation Represented** | **CAT.** | **PRINCIPAL MEMBER/ALTERNATE MEMBER** | **20th** | **21st** | **22nd** | **TOTAL** |
|  | In Personal Capacity | G | Shri A. K. Nijhawan (Chairman) | Y | Y | Y | 3/3 |
|  | Aquasub Engineering, Coimbatore | M | Shri C. Murugesan | Y | Y | Y | 3/3 |
|  | Best Engineers Pumps Pvt. Limited, Coimbatore | M | Mrs. C. G. Sripriya  Mr. T. Parthiban | Y | Y | Y | 3/3 |
|  | [Bharat Heavy Electrical Limited, New Delhi](javascript:;) | G | Shri Anuj Jain  Shri Hardeep Singh Dogra(Alt) | N | Y | N | 1/3 |
|  | Bharat Petroleum Corporation Ltd., Mumbai | C | Shri D. P. Chandramore  Shri Santosh N. Kale (Alt) | N | Y | Y | 2/3 |
|  | Bureau of Energy Efficiency, New Delhi | G | Ms P. Samal  Ms Neha Kumari (Alt)  Shri Kamran Shaikh (Alt) | N | Y | N | 1/3 |
|  | Central Water & Power Research Station | R&D | Shri Abdul Rahiman (Alt) | Y | Y | N | 2/3 |
|  | Chief Quality Assurance Establishment, Ministry of Defense, New Delhi | G | Shri G. Arvindam | Y | N | N | 1/3 |
|  | Crompton Greaves Consumer Electricals Limited, Ahmednagar | M | Shri Pravin Garje  Shri Parvin Murdekar (Alt)  Shri Rohit Kanase (Yp) | Y | Y | N | 2/3 |
|  | Delhi Jal Board, New Delhi | G | Shri Praveen Bhargava | Y | N | N | 1/3 |
|  | [Directorate General of Quality Assurance, Ministry of Defence, New Delhi](javascript:;) | G | Shri Lalajee Dongre  Shri R.V. Jain (Alt) | N | N | N | 0/3 |
|  | Electrical Research & Development Association (ERDA), Vadodra, Gujrat | R&D | Shri Ravi Prakash Singh  Shri Gautam Brahm bhatt (Alt) | Y | Y | Y | 3/3 |
|  | Engineers India Ltd, New Delhi | L | Shri Mahesh Gupta  Shri Dinesh Bhatia (Alt) | N | N | N | 0/3 |
|  | Gail India Ltd, New Delhi | C | Shri Satish Geda | N | N | N | 0/3 |
|  | [Grundfos Pumps India Private Limited, Chennai](javascript:;) | — | Shri Bibek Saha  Shri Sanjeev Choudhary | Y | Y | Y | 3/3 |
|  | Hindustan Petroleum Corporation Ltd., Mumbai | C | Shri Arijit Sanyal | N | N | N | 0/3 |
|  | Havells India  Ltd., Noida | — | Shri Anil Sukumar Akole | Y | Y | Y | 3/3 |
|  | Indian Pump Mfrs Association | M | Shri Utkarsh A. Chhaya | Y | Y | Y | 3/3 |
|  | In Pesonal Capacity, Mumbai | O | Shri S. L. Abhyankar | Y | Y | N | 2/3 |
|  | International Copper Association India, Mumbai | L | Shri Mayur Karmakar  Shri Debdas Goswami (Alt) | Y | Y | Y | 3/3 |
|  | Kirloskar Brothers Limited, Pune | M | Shri R.S. Birajdar  Shri Vasant Godbole (Alt) | Y | Y | Y | 3/3 |
|  | Kirloskar Ebara Pumps Ltd., Pune | M | Shri A.S. Joshi | N | N | Y | 1/3 |
|  | KSB Pumps Limited, Pune | M | Shri Uday Joshi  Shri Kiran Shinde (Alt)  Shri Rajesh B. Gote (Alt) | N | Y | Y | 1/3 |
|  | Mangalore Refinery and  Petrochemicals Ltd, Mangalore | C | Shri Adarsh G. A.  Shri P Rajendran (Alt) | Y | N | N | 1/3 |
|  | Mecon Limited, Ranchi | L | Shri P.S. Rao  Shri A. Gangal (Alt) | Y | N | N | 1/3 |
|  | National Bank for Agri& Rural Development, Mumbai | O | Shri D. Elangovan  Shri A. K. Sinha (Alt) | N | N | N | 0/3 |
|  | [North India Pump Manufacture Association, Phagwara](javascript:;) | — | Shri C. L. Garg   Shri Suriender Kalsi (Alt) | Y | N | N | 1/3 |
|  | Petroleum Conservation Research Association, New Delhi | R&D | Shri Manish Ranjan (Alt)  Ms. Anupriya Sharma (YP) | N | Y | N | 1/3 |
|  | Projects & Development India Ltd., Vadodara | L | Shri A.K. Gupta  ShriD.K.Vohra (Alt) | N | N | N | 0/3 |
|  | Punjab Agriculture University, Ludhiana | R&D | Dr (Prof.) Sunil Garg  Shri Sanjay Satpute (Alt) | Y | Y | N | 2/3 |
|  | Rajkot Engg Association, Rajkot | M | Shri Anand P Savalia  Shri D. R. Shah (Alt) | Y | Y | Y | 3/3 |
|  | [Scientific and Industrial Testing and Research Centre, Coimbatore](javascript:;) | R&D | Shri A.M Selvaraj | Y | N | Y | 2/3 |
|  | [Southern India Engineering Manufacturers Association, Coimbatore](javascript:;) | — | Shri K.V. Karthik | Y | Y | Y | 3/3 |
|  | Tata Consulting  Engineers,Bangalore | — | Shri A. K. Chaudharysh  Shri R Madhavan (Alt) | N | N | N | 0/3 |
|  | Wilo Mather and Platt Pumps Ltd, Pune | M | Shri Kishor A. Dumbre | N | N | Y | 1/3 |

**Manufacturer M, Twelve (12)**

**Consumer C, Four (4)**

**Government & Regulatory G, Six (6)**

**R&D and Technical Institution, R&D, Five (5)**

**Consultants L, Four (4)**

**Others O, Two, (2)**

**Annex 1B**

(*Refer Item* 5.2.2)

**COMPOSITION OF AGRICULTURAL AND DOMESTIC**

**PUMPS SUBCOMMITTEE 20:5**

|  |  |  |
| --- | --- | --- |
| **No. of Meeting** | **Date** | **Place** |
| 15th | 11th January 2023 | Central Water and Power Research Station (CWPRS), Pune in physical mode |
| 14th | 28 July 2022 | New Delhi (WebEx) |
| 13th | 15 Dec 2021 | New Delhi (WebEx) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl**  **No.** | **ORGANIZATION NAME** | **CAT** | **PRINCIPAL/ALTERNATE MEMBERS** | **13th** | **14th** | **15th** | **TOTAL** |
|  | [Southern India Engineering Manufacturers' Association, Coimbatore](javascript:;) | O | Shri G. Rajendran (*Convener*) | Y | Y | Y | 3/3 |
|  | Agrofab, Jaipur | M | ShriAlok Gupta  ShriSiddharth Gupta (Alt) | Y | Y | Y | 2/3 |
|  | Aquasub Engineering, Coimbatore | M | Dr C. Muthu  Shri. C. Murugesan (Alt) | Y | Y | Y | 3/3 |
|  | Best Engineers Pumps Pvt Ltd., Coimbatore | M | Shri S Thangapandi  Shri N Ranadhive (Alt) | Y | Y | Y | 3/3 |
|  | Central Equip & Stores Procurement,Lucknow | G | ShriArun Kumar  Shri M. P. Kandoi (Alt) | Y | N | N | 1/3 |
|  | Central Ground Water Board, Nagpur | G | Shri G.D. Ojha  ShriAshis Chakraborty (Alt) | N | N | N | 0/3 |
|  | Crompton Greaves Consumer Electricals Limited, Ahmednagar | M | Shri Pravin Garje  Shri ParvinMurdekar (Alt)  Shri Prashant Mahale (YP) | Y | Y | N | 2/3 |
|  | CSIR-Central Mechanical Engineering Research Institute, Durgapur | R&D | ShriSubrata Kumar Mandal  Shri Ashok Kumar Prasad (Alt) | N | N | N | 0/3 |
|  | [Havells India Limited, Noida](javascript:;) | -- | Shri Anil SukumarAkole  Shri Manish Kumar Vimal (Alt) | Y | Y | Y | 3/3 |
|  | In Pesonal Capacity, Mumbai | O | Shri. S. L.Abhyankar | Y | Y | N | 2/3 |
|  | Indian pump Manufacturers Association, Ahmadabad | M | Shri Yogesh Mistri  ShriUtkarsh A Chhaya (Alt) | Y | N | Y | 2/3 |
|  | Kalsi Metal Works, Jalandhar | M | Shri Barinder Kalsi  ShriPuneet Kalsi  Shri K.R. Kohli (Alt) | Y | Y | N | 2/3 |
|  | Kirloskar Brothers Ltd., Pune | M | Shri RavindraBirajdar  Shri Sudhir Mali (Alt) | Y | Y | Y | 3/3 |
|  | KSB Pumps Ltd., Pune | M | ShriAbhayVirkar  Shri Sanjeev Choudhry(Alt) | N | Y | Y | 2/3 |
|  | North India Pump Manufacturers Association, Jalandhar | M | Shri C L Garg  ShriJatin Kalsi (Alt.) | Y | N | N | 1/3 |
|  | Punjab Agricultural University, Ludhiana | R&D | Dr A. K. Jain  Dr Sunil Garg (Alt) | Y | Y | N | 2/3 |
|  | Rajkot Engg Association, Rajkot | M | ShriAnand P Savalia  Shri D R Shah (Alt) | Y | Y | Y | 3/3 |
|  | Roxon Industries (Regd.), Amritsar | M | ShriKirpal Singh | Y | Y | N | 2/3 |
|  | [Scientific And Industrial Testing And Research Centre, Coimbatore](javascript:;) | R&D | Shri A.M. Selvaraj | Y | N | Y | 2/3 |
|  | UL India Pvt Ltd, Whitefield, Bangalore | R&D | Shri Manjunath V | Y | Y | N | 2/3 |

**Annex 1C**

(*Refer Item* 5.2.3)

**COMPOSITION OF UTILITY AND INDUSTRIAL APPLICATION PUMPS SUBCOMMITTEE 20 : 6**

|  |  |  |
| --- | --- | --- |
| **No. of Meeting** | **Date** | **Place** |
| 15th | 11th January 2023 | Central Water and Power Research Station (CWPRS), Pune in physical mode |
| 14th | 28 July 2022 | New Delhi (WebEx) |
| 13th | 15 Dec 2021 | New Delhi (WebEx) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl**  **No.** | **ORGANIZATION NAME** | **CAT** | **PRINCIPAL/ALTERNATE MEMBERS** | **13th** | **14th** | **15th** | **TOTAL** |
|  | [Kirloskar Brothers Limited, Pune](javascript:;) | O | Shri R Birajdar  (*Convener*) | Y | Y | Y | 3/3 |
|  | Best Engineers Pumps Pvt Ltd, Coimbatore | M | Shri S Thangapandi  Shri N Ranadhive (Alt) | Y | Y | Y | 3/3 |
|  | Crompton Greaves Consumer Electricals Limited, Ahmednagar | M | Shri Pravin Garje | Y | Y | N | 2/3 |
|  | Engineers India Limited, New Delhi | G | Shri Ankul Mandal  Shri Abhay Kumar (Alt) | N | N | N | 0/3 |
|  | FLOWMORE LIMITED, GURGAON | M | SH. I. C. JAIN  SH P. K. SHARMA (ALT) | Y | Y | N | 2/3 |
|  | Hindustan Petroleum Corporation Ltd, Mumbai | C | Shri P Venkata Narayana  Shri ArijitSanyal (Alt) | N | N | N | 0/3 |
|  | In Personal Capacity, Mumbai | O | Shri S.L.Abhyankar | Y | Y | N | 2/3 |
|  | Indian pump Manufacturers Association, Ahmadabad | M | Shri Utkarsh A Chhaya  Shri P K M Dalwadi (Alt) | Y | Y | Y | 3/3 |
|  | Kirloskar Brothers Limited, Pune | M | Shri Sharad Jagtap | Y | Y | Y | 3/3 |
|  | KSB Pumps Limited, Pune | M | Shri AbhayVirkar  Shri Sanjeev Choudhry (Alt) | N | Y | Y | 2/3 |
|  | Mechanical Engg. Res &Devp. Organisation, Ludhiana | R&D | Shri Rakesh Nigam  Shri S.K. Mandal (Alt) | N | N | N | 0/3 |
|  | Mecon Ltd, Ranchi | G | Shri S. Shshirek A.G.  Shri G. Israni (Alt) | Y | N | N | 1/3 |
|  | North India Pump Manufacturers Association Jallandhar | M | Shri C.L. Garg  Shri. Jatins Kalsi (Alt) | Y | N | N | 1/3 |
|  | Projects & Development India Ltd, Vadodara | C | Shri G.P. Dabi  Shri R.C. Sharma (Alt) | N | N | N | 0/3 |
|  | Roxon Industries (Regd.), Amritsar | M | Shri Kirpal Singh | Y | Y | N | 2/3 |
|  | [Scientific And Industrial Testing And Research Centre, Coimbatore](javascript:;) | R&D | Shri A.M. Selvaraj | Y | N | Y | 2/3 |
|  | Southern India EnggMfrs Association, Coimbatore | M | Shri K.V. Kartik  Shri D. Jayaprakash (Alt.) | Y | Y | Y | 3/3 |
|  | Tata Consulting Engineers,  Bangalore | C | Shri S V Kamesh  Shri R Madhavan (Alt) | N | N | N | 0/3 |
|  | Thyssenkrupp Industrial Solutions (India) Private Limited, Mumbai | M | Shri Suhas Shrirao  Shri Rajesh Shekatkar (Alt) | Y | Y | N | 2/3 |
|  | UL India Pvt Ltd, Whitefield, Bangalore | R&D | Shri V. Manjunath  Shri Satish Kumar (Alt) | Y | Y | N | 2/3 |
|  | WPIL Ltd, Ghaziabad | C | Shri B.C. Bhaoyal  Shri B.P. Khare (Alt) | N | N | N | 0/3 |
|  | Wilo Mather And Platt Pumps Ltd; Pune | M | Shri ManojBafna | N | N | N | 0/3 |

**Annex 1D**

(*Refer Item* 5.2.4)

**COMPOSITION OF SOLAR PHOTO VOLTAIC WATER PUMPING SYSTEMS SUBCOMMITTEE, MED 20 : 7**

|  |  |  |
| --- | --- | --- |
| **No. of Meeting** | **Date** | **Place** |
| **6th** | **20 04 2022** | **WEBEX** |
| **7th** | **03 11 2022** | **WEBEX** |
| **8th** | **21 06 2023** | **WEBEX** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **ORGANISATION REPRESENTED** | **CAT.** | **PRINCIPAL MEMBER / ALTERNATE MEMBER** | **6th** | **7th** | **8th** | **TOTAL** |
|  | Ministry Of New & Renewable Energy (Mnre), Govt. Of India | G | Shri J. K. Jethani, (*Convener)* | Y | Y | Y | 3/3 |
|  | Agricultural Engineering Department, Chennai | C | Dr. R. Murugesan  Ms ShanthiSundar Ram (Alt) | Y | Y | Y | 3/3 |
|  | Electrical Research and Development Association  (ERDA), Vadodara | R&D | Shri Ravi Prakash Singh  Shri Vinod Gupta (Alt) | Y | Y | Y | 3/3 |
|  | Flowmore Limited, Gurugram, Haryana | M | Shri I C Jain | Y | Y | Y | 3/3 |
|  | Department of Electrical Engineering, IIT, Delhi | R&D | Prof. Amit Kumar Jain | N | N | N | 0/3 |
|  | Grundfos Pumps India Private Limited, Gurugram | M | Shri Bibek Saha  Shri Rangarajan (Alt) Shri Ramaswamy(Alt) | Y | Y | Y | 3/3 |
|  | Indian Pump Manufacturers Association (IPMA) , Ahmedabad | M | Shri Yogesh Mistri  ShriUtkarshA.Chhaya(Alt) | Y | Y | Y | 3/3 |
|  | Jain Irrigation Systems Ltd., Jalgaon | M | Shri Sanjeev Phadnis  ShriPradipBhosale(Alt) | Y | Y | Y | 3/3 |
|  | KSB Pumps Limited, Pune | M | Shri Sunil Bapat | NA | NA | Y | 1/1 |
|  | Kinetica Solar Pvt. Ltd., Jaipur | M | ShriNimeshSheth  ShriMihir Patel (Alt) | N | N | Y | 1/3 |
|  | La Gajjar Machinery Private Limited, Ahmedabad | M | Shri Vipul Kumar Hargovandas  Ms Kavita Shahu | NA | NA | Y | 1/1 |
|  | National Institute  of Solar Energy (NISE), Gwalpahari, Gurugram | R&D | Er. Sanjay Kumar  Ms. RichaParmar  Shri Gopal Kumar (Alt) | Y | Y | N | 2/3 |
|  | North India Pump Manufacturers Association, (NIPMA) Ludhiana | M | Shri C.L. Garg  Shri Puneet Kalsi (Alt) | Y | Y | N | 2/3 |
|  | Punjab Agricultural University  Ludhiana | R&D | Professor Rakesh Sharda  ShriRajan Aggarwal (Alt) | Y | Y | Y | 3/3 |
|  | Rajkot Engineering Association , Rajkot | M | ShriAnandSavaliya  Shri Vinod Asodariya(Alt) | Y | N | Y | 2/3 |
|  | Rotomag Motors & Controls Pvt. Ltd., Gujarat | M | ShriUmeshBalani  Shri Sanjay Mahagaokar(Alt) | Y | Y | Y | 3/3 |
|  | Scientific and Industrial Testing and Research Centre (SITARC), Coimbatore | R&D | Shri A.M. Selvaraj | Y | Y | Y | 3/3 |
|  | Shakti Pumps (India) Ltd., Pithampur, (Indore) | M | Shri Dinesh Patidar  Shri Amit Mukherjee (Alt) | Y | Y | Y | 3/3 |
|  | The Southern India Engineering Manufacturers Association, (SIEMA) Coimbatore | M | Shri K.V. Karthik  Shri P Ramesh (Alt) | Y | Y | Y | 3/3 |
|  | Tata Power Solar Systems Limited, Noida | M | Shri Ramakrishna Sataluri  ShriArpit Srivastava (Alt) | N | N | N | 0/3 |
|  | Vyoda Private Limited, Mysuru | M | ShriPadmakarPratapure  ShriAvinash Kumar (Alt) | Y | Y | Y | 3/3 |
|  | Maxop Research & Testing Institute Pvt. Ltd., N Delhi | O | Dr O S Sastry | N | N | N | 0/3 |

**Annex 2**

*(Refer Item* ***7****)*

**PROFORMA FOR PROPOSING NEW SUBJECTS FOR NATIONAL STANDARDIZATION**

1. Proposer

(Name & Address)

1. Title ..................................................................................................................................

(Indicate whether the standard required is for product specification/methods of test/code of practice and define the subject in brief.)

3 Scope ................................................................................................................................

(Define the limits to be considered)

4 Purpose and justification ...................................................................................................

5 Likely users of standard and their inputs .....................................................................................

1. Any related standard/series of standard/system standard required to make this subject standard complete...............................................................................................................
2. When the final Standard would be required (any time limit) ............................................

8 Any specific bottlenecks without this Standard................................................................

9 Bearing with Government legislation regulation, etc.....................................................................

10 Name and address of manufacturers, implementing industries, purchasing organization/component supplier/raw material supplier...................................................

(Approx. production figure and approx. value of overseas trade, if available)

1. Availability of test facilities...............................................................................................
2. Whether related to variety reduction, export, health, safety consumer production, mass consumption, energy conservation, technology transfer, technology up-gradation, protection of environment & other national priorities

13 Relevant supportive documents/standards........................................................................

14 R&D work done in India...................................................................................................

15 Status of the industry in the country...................................................................................

16 Any foreign collaboration (give details) ............................................................................

17 Liaison with any Organization(s).......................................................................................

1. Preparatory work:
2. Whether draft attached.................................................................................................
3. Whether outline attached and draft can be prepared....................................................
4. No draft possible, if so, why? .....................................................................................

19 Whether this project can be funded by your organization or can it be sponsored by industry/associations/ professional bodies/ministry? If yes, to what extent?....................

20 Whether your Organization would be interested to opt for BIS Standard Mark once the standard is published?.......................................................................................................

Date..................... Signature

NOTES

1. It is desirable that the information is provided by the proposer for all items of the proforma; in any case information against item 1 to 5 must be provided.

2. Write `NA' wherever not applicable.

3. Add separate sheet to elaborate.

**Annex 3**

(*Refer Item* 10.5)

**Standards and projects under the direct responsibility of ISO/TC 115 Secretariat and its SC’s/WG’s**

**ISO/TC 115 - Pumps**

|  |
| --- |
| [ISO 3661:1977](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=9112) End-suction centrifugal pumps – Base plate and installation dimensions |
| [ISO/ASME DIS 14414](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=54740):2019 Pump system energy assessment |
| [ISO 17769-1 : 2012](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=55821) Liquid pumps and installation — General terms, definitions, quantities, letter symbols and units — Part 1: Liquid pumps |
| [ISO 17769-2 : 2012](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=54108) Liquid pumps and installation — General terms, definitions, quantities, letter symbols and units — Part 2: Pumping system |
| ISO 20361 : 2019 Liquid pumps and pump units — Noise test code — Grades 2 and 3 of accuracy |

**ISO/TC 115/SC 1 - Dimensions and technical specifications of pumps**

|  |
| --- |
| [ISO 2858:1975](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=7862) End-suction centrifugal pumps (rating 16 bar) -- Designation, nominal duty point and dimensions |
| [ISO 3069:2000](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=8184) End-suction centrifugal pumps -- Dimensions of cavities for mechanical seals and for soft packing |
| [ISO 5199:2002](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=31945) Technical specifications for centrifugal pumps -- Class II |
| [ISO 9905:1994](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=17788) Technical specifications for centrifugal pumps -- Class I |
| [ISO 9905:1994/Cor 1:2005](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=41990) |
| [ISO 9905:1994/Amd 1:2011](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=57327) |
| [ISO 9908:1993](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=17790) Technical specifications for centrifugal pumps -- Class III |
| [ISO 9908:1993/Amd 1:2011](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=57328) |
| [ISO 14847:1999](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=25745) Rotary positive displacement pumps -- Technical requirements |
| [ISO 15783:2002](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=28987) Seal-less rotodynamic pumps -- Class II -- Specification |
| [ISO 15783:2002/Amd 1:2008](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=45649) |
| [ISO 16330:2003](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=32189) Reciprocating positive displacement pumps and pump units -- Technical requirements |
|  |

**ISO/TC 115/SC 2 - Methods of measurement and testing**

|  |
| --- |
| [ISO 5198:1987](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=11203) Centrifugal, mixed flow and axial pumps -- Code for hydraulic performance tests -- Precision grade |
| [ISO 9906:2012](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=41202) Rotodynamic pumps -- Hydraulic performance acceptance tests -- Grades 1, 2 and 3 |
| ISO/TR 19688 :2019  Rotodymanic pumps -- Hydraulic performance acceptance test using model pump |
| [ISO 21630:2007](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=35953) Pumps -- Testing -- Submersible mixers for wastewater and similar applications |

**ISO/TC 115/SC 3 - Installation and special application**

|  |
| --- |
| [ISO 13709:2009](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=41612) Centrifugal pumps for petroleum, petrochemical and natural gas industries |
| [ISO 13710:2004](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=36129) Petroleum, petrochemical and natural gas industries -- Reciprocating positive displacement pumps |
| [ISO 21049:2004](http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=35625) Pumps -- Shaft sealing systems for centrifugal and rotary pumps |

**WORKING GROUPS (WG’s) of ISO/TC 115**

|  |  |
| --- | --- |
| ISO/TC 115/WG 7 | Pumping system energy assessment |
| ISO/TC 115/SC 2/WG 2 | Rotodynamic pumps test codes |
| ISO/TC 115/SC 2/WG 4 | Rotodynamic pumps - Hydraulic performance acceptance tests using a model pump |
| ISO/TC 115/SC 3/WG 2 | Joint ISO/TC 115/SC 3 - ISO/TC 67/SC 6 WG : Positive displacement pumps for petroleum and natural gas industries |
| ISO/TC 115/SC 3/WG 6 | Joint ISO/TC 115/SC 3 - ISO/TC 67/SC 6 WG: Shaft sealing systems for centrifugal and rotary pumps |