

**Bureau of Indian Standards**

**Metallurgical Engineering Department**

**MINUTES OF MEETING**

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| **Name of the Committee** | **Meeting No.** | **Day** | **Date** | **Time** | **Venue/Mode** |

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| **Welding General and its Applications** Sectional Committee, **MTD 11** | 24th | Tuesday | 27 February 2024 | 10:30 AM | **Hybrid Meeting**  **White Room (Mimaansa)**  Manak Bhawan, Bureau of Indian Standards, 9, Bahadur Shah Zafar Marg, New Delhi-110002 |

***Chairperson*:** Dr Shaju K. Albert ***Member Secretary*:** Shri Vishal Kumar Rana, Sc-‘B’

**Meeting Attendance**

| **Sl No.** | **Member Organization** | **Name** | **Mode of Attendance** | **E-Mail** |
| --- | --- | --- | --- | --- |
|  | Indian Institute of Technology Bombay, Mumbai | Shri Amitava De | Virtual | amit@iitb.ac.in |
|  | Godrej & Boyce Manufacturing Company Limited, Mumbai | Shri Surendra Vaidya | Virtual | smv@godrej.com |
|  | Godrej & Boyce Manufacturing Company Limited, Mumbai | Shri Anand D. Bagdare | Virtual | bagdare@godrej.com |
|  | Indian Register of Shipping, Mumbai | Shri Ankur Anal | Virtual | ankur.anal@irclass.org |
|  | Tata Motors Limited, Pune | Shri Anoop Toby | Virtual | att531197@tatamotors.com |
|  | Indian Welding Society, Tiruchirappalli | Dr V. R. Krishnan | Virtual | vrkrishnan.dr@gmail.com |
|  | Indian Welding Society, Tiruchirappalli | Shri Asokkumar Kalidass | Virtual | kasokku@gmail.com |
|  | Tata Steel Limited, Kolkata | Shri Kanwer Singh Arora | Virtual | kanwer.arora@tatasteel.com |
|  | Indra Gandhi Centre for Atomic Research, Kalpakkam | Shri Krishnamoorthy | Virtual | mkrishm@igcar.gov.in |
|  | Directorate General of Quality Assurance, Ministry of Defence, Ichapur | Shri P. Sundharajan | Virtual | cqametichapur-dgqa@nic.in |
|  | Ador Welding Limited, Mumbai | Shri Ninad Thigale | Virtual | ninadthigale@adorians.com |
|  | Ador Welding Limited, Mumbai | Shri Hariganesh Ramamurthy | Virtual | hariganesh@adorians.com |
|  | Ador Welding Limited, Mumbai | Shri Rohit Raut | Virtual | rohitraut@adorians.com |
|  | Association of Welding Products Manufacturers, Mumbai | Shri Pankaj Jain | Virtual | jainp@wearresist.com |
|  | Association of Welding Products Manufacturers, Mumbai | Shri Somnath Chakravarty | Virtual | somnathchakravarty@adorians.com |
|  | Bharat Heavy Electrical Limited, New Delhi | Shri Praveen Kumar Lakavath | Virtual | praveenlakavath@bhel.in |
|  | Volvo Group India Private Limited, Bengaluru | Shri Rudresh HM | Virtual | rudresh.hm@volvo.com |
|  | D & H Secheron Electrodes Private Limited, New Delhi | Shri T. J. Prasada Rao | Virtual | tjprao@dnhsecheron.net |
|  | GEE Limited, Thane | Shri Vinay Tripathi | Virtual | panipat2@geelimited.com |
|  | Royal Arc Electrodes Limited, Mumbai | Shri Hardik Sanghvi | Physical | hardik@royalarc.in |
|  | Dayachand Engineering Industries Pvt Ltd. | Shri Amit Jain | Physical | info@fairweld.com |
|  | Unique Welding Products Pvt Ltd. | Shri Kamal A. Mulchandani | Physical | kamal@uniquewelding.com |
| **Bureau of Indian Standards** | | |  |  |
|  | Central Marks Department (CMD-2) | Shri Shivam Ahuja | Virtual | cmd2@bis.gov.in |

**Item 0 General**

**0.1 Welcome Address by Head MTD**

Shri Sanjiv Maini, Sc-F, HMTD, welcomed all the members of MTD 11 to the twenty-fourth meeting of Welding General and its Applications sectional Committee, MTD 11. HMTD mentioned that this is the last meeting of FY 2023-24, so we have to prepare Annual Action Plan for FY 2024-25. He also advised the committee to plan meeting for entire FY 2024-25. After that, HMTD requested all the members to actively participate in the activities of Sectional Committee, by providing comments in the P-drafts, WC-drafts and ISO ballots circulated among the committee members. HMTD ended his remarks by requesting the committee to suggest name(s) for awarding Letter of Appreciation to the member(s).

**0.2 Opening Remarks by the Chairman**

Dr. Shaju K. Albert, Chairman, MTD 11, welcomed all the committee members and invitees to the twenty-fourth meeting of the Welding General and its Applications sectional Committee, MTD 11. Then he appreciated efforts of the members’ of MTD 11 by mentioning that its heartening to see the members of MTD 11 are very responsive to the mails sent, seeking their inputs in the ISO ballots. He also appreciated the recent policies of BIS by stating that BIS is ready to make changes in its policies to have a positive effect.

**Item 1 Confirmation of Minutes of Last Meeting**

Since, no comments have been received, the Committee approved the minutes of twenty-third meeting of Welding General and its Applications Sectional Committee, MTD 11.

**Item 2 SCOPE AND COMPOSITION OF COMMITTEE**

**2.1** The committee noted the information given at **Item No. 2.1, 2.2, 2.3** and **2.5** of the Agenda.

**2.2** The committee noted the information given at **Item No. 2.1.1** of the agenda and after deliberation, decided as given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Organization** | **Decision of the committee in last meetings** | **Action Taken** | **Decision of the Committee** |
| 1. | Bharat Heavy Electrical Limited, Tiruchirappalli | Mail regarding fresh nominations was sent to the organization on 25th April 2023.  The committee in its last meeting advised the member secretary to wait for the nominations.  No new nominations received till date.  Shri Lakavath Praveen Kumar shared the contact details of Shri Hari Krishna, BHEL, Hyderabad and advised the member secretary to get fresh nominations from him. | The mail regarding fresh nominations has been sent, and we are awaiting a reply. | Shri Lakavath Praveen from M/s BHEL mentioned that, he will help in getting the nominations from M/s BHEL. |
| 2. | Indira Gandhi Centre for Atomic Research, Kalpakkam | Mail regarding fresh nominations was sent to the organization on 24th April 2023.  The committee in its last meeting advised the member secretary to contact the Principal member of IGCAR Shri M Krishnamoorthy regarding the nominating authority of the organization and send the mail regarding fresh nomination for the alternate member.  Mail regarding contact details of the nominating authority of the organization was sent to Shri M Krishnamoorthy dated 07-08-2023.  No reply has been received.  The committee advised the member secretary to again contact Shri Krishnamoorthy regarding fresh nominations. | Member secretary contacted Shri M. Krishnamoorthy regarding contact details of the nominating authority of the organization.  No reply has been received. | Chairperson, Shri Shaju K. Albert mentioned that he will coordinate with Shri M. Krishnamoorthy to get the contact details of the nominating authority.  He also asked Member secretary to send reminder mail. |
| 3. | Indian Welding Society | Member secretary didn’t find contact details of the organization  The committee in its last meeting advised member secretary to contact Dr Asok kumar regarding the contact details of the nominating authority of the organization.  Mail Regarding fresh nominations was sent to the organization.  No reply has been received.  The committee advised the member secretary to contact Dr Raju regarding fresh nominations. | Member secretary didn’t find contact details of Dr Raju. | Shri Lakavath Praveen shared contact number of Dr Raju during the meeting. |

**2.3** The committee noted the information given at Item No. 2.4 of the Agenda and decided as given in the below Table:

| **Sl No.** | **Organization** | **Remarks** | **Action taken** | **Decision of the committee** |
| --- | --- | --- | --- | --- |
|  | Volvo Group Truck Technologie, Bangalore | Shri Rudresh wants to work with MTD 11. He has nominated the following members from the organization:   |  |  |  | | --- | --- | --- | | 1 | Name | Shri Rudresh | |  | Qualification | Post grad Diploma - CAD, CAM & CAE | | Designation | Standardisation engineer; Permanent joints | | CV |  | |  | | | | 2 | Name | Shri Gopinath Murugan | |  | Qualification | B.E. Mechanical Engg. | | Designation | Product Architect | | CV |  |   Nomination performa is placed below :    The committee noted the information and advised member secretary to contact nominating authority of the organization for proper justification why they want to co-opt in MTD 11. Also, advised member secretary to invite Shri Rudresh and Shri Gopinath to the next committee meeting of the committee.    Invitation mail to attend the meeting was sent to Shri Rudresh.  The committee noted the information and after deliberation accepted the co-option request from the organization. | Shri Rudresh and Shri Gopinath Murugan were added in the committee composition. | The committee noted the information. |
|  | Royal Arc Electrodes | The Co-option request from organization was received after the agenda was circulated in the committee.  The committee after deliberation decided to put the nominated members in the mailing list of MTD 11 and send mails regarding ballots and Working drafts. If they participate actively in the work of the committee by commenting on ballots and working drafts then the committee will decide whether to co-opt or not with the organization.  Invitation mail to attend the meeting was sent to Shri Hardik Sanghvi.  The committee noted the information and after deliberation accepted the co-option request from the organization. | Shri Hardik Sanghvi and Shri Ramchandra A. Dewoolkar were added in the committee composition. | The committee noted the information. |
|  | TUV India Pvt Ltd | |  |  | | --- | --- | | **Name** | Kamal Dhandha | | **Designation** | Sr. Inspection Engineer | | **Email id**  **Alt email id** | [kamaldhandha@yahoo.co.in](mailto:kamaldhandha@yahoo.co.in)  [kamaldhandha@gmail.com](mailto:kamaldhandha@gmail.com) | | **CV** |  |   The committee after deliberation advised member secretary to invite Shri Kamal Dhandha in the next meeting of the committee. | Invited to the meeting as an invitee. | Since, M/s TUV India Pvt Ltd did not attend the 24th TC meeting, the committee advised member secretary to invite M/s TUV India Pvt Ltd again in the next TC meeting, and if the organization fail to attend the next meeting, the membership proposal will be rejected. |

**2.3** The committee noted the information given at **Item No. 2.4** of the Agenda. Chairperson Dr Shaju Albert mentioned that, since M/s L&T is an important organization for the MTD 11 sectional committee, so he will contact with the relevant nominating authority of M/s L&T and ask them to again apply for the membership of the MTD 11 committee after 1 year when the cooling period is over.

**Item 3 Action Taken Report**

| **Sl. No.** | **Subject** | **Decision of the committee during previous meetings** | **Action Taken** | **Decision of the committee** |
| --- | --- | --- | --- | --- |
|  | **IS 6016 : 2009 / ISO 3253 : 1998 - Gas Welding Equipment - Hose Connections for Equipment for Welding, Cutting and Allied Processes** | The committee in the meeting held on 19th February 2016 at Chennai decided to withdraw the standard as ISO 3253:1998 is replaced by ISO/TR 28821:2012, which is a Technical Report. The committee was requested to reconsider the withdrawal of the standard as it is an important standard and it is not being replaced by a new standard. The committee noted the information and after deliberation decided to retain the standard. The committee also decided to take up the standard for revision.  The committee after deliberation constituted the following panel to review the existing standard along with ISO/TR 28821:2012 and give their recommendation whether ISO/TR 28821:2012 can be adopted and whether the same covers all the requirements of the existing standard. If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard w.r.t ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months.  **Panel 1**   1. Mr. P Ravi Kumar – ESAB – Convenor 2. Mr. A K Gupta – Jai Gopal Engg works – Member   Since, the recommendations were not received the committee after deliberation in 19th Meeting reconstituted the panel as follows :  **Panel 1**   1. Mr. M Krishnamoorthy– IGCAR – Convenor 2. Mr. A K Gupta – Jai Gopal Engg works – Member   The panel was requested to give their recommendations within two months to BIS. If recommended for adoption of ISO/TR 28821:2012, the same shall be sent for wide circulation for one month.  Shri M Krishnamoorthy during the 20th meeting requested the committee for some more time to complete the review of the standard. The committee noted the information at Sl. No.1 of Item 2.1 and after deliberation requested **Shri M Krishnamoorthy** to submit his recommendations latest by 30th November 2021.  Shri M Krishnamoorthy during the 21st meeting requested the committee for some more time to complete the review of the standard. The committee noted the information at Sl. No.1 of item 3.1 and after deliberation requested **Shri M Krishnamoorthy** to submit his recommendations latest by 31st August 2022.  **22nd Meeting**  The committee in its 22nd meeting after deliberation requested **Shri M. Krishnamoorthy** to submit his recommendations latest by 31st July 2023.  **23rd Meeting**  The committee in its 23rd meeting after deliberation and discussion requested **Shri P. Ravi Kumar, ESAB** to submit his recommendations latest by **31st January 2024.** | The recommendations are still awaited. | Shri Krishnamoorthy informed the committee that he has gone through ISO 3253, ISO/TR 28821 and IS 6016 and there is not much difference between IS 6016 and ISO 3253. ISO/TR 28821 only has additional information, so he suggested to revise IS 6016 by including the technical report ISO/TR 28821.  The committee noted the information and member secretary requested Shri Krishnamoorthy to send his detailed recommendations via mail. In reply Shri Krishnamoorthy mentioned that he will send the recommendations in detail along with the draft document before 30th April 2024 |
|  | **IS 1395:1982 – Low and medium alloy steel covered electrodes for manual metal arc welding.** | The committee noted the information that no comments have been received and after deliberation decided to adopt ISO 18275:2011 ‘Welding consumables -- Covered electrodes for manual metal arc welding of high-strength steels -- Classification’. The committee requested member secretary to send the document for wide circulation.  It was informed that ISO 18275:2011 has since been revised as ISO 18275:2018.  The committee after deliberation constituted the following panel to review the existing standard along with ISO 18275 : 2018 and give their recommendations whether ISO 18275 : 2018 can be adopted and whether the same covers all the requirements of the existing standard. If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard viz a viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months.  **Panel 2**   1. Mr Vinay Tripathi – GEE LTD– Convenor 2. Mr P Ravi Kumar – ESAB- Member 3. Mr Haridas Mondal – Ador welding- Member 4. Mr L Praveen Kumar – WTC, BHEL – member   Comments from panel awaited. Reminder was sent on 6/11/2019 and 20/2/2020.  The committee in its 19th meeting after deliberation mentioned that the committee can function and deliver only if the members take active interest in the work of the committee. The committee members stated that at present the standards formulated by this committee are not being used and in most of the government tenders reference is made to AWS specification. The members insisted that BIS should write to government departments to refer Indian standard in their tenders so that the use of Indian standard is increased. Also, major users such as BHEL, EIL etc also should ensure to mention Indian standard in their tender document.  The committee had requested panel 2 to complete the work allotted to them in two months time.  If recommended for adoption of ISO standard, the same shall be sent for wide circulation for one month.  During the 20th meeting Shri T. J. Prasadarao, D & H Sechron informed the committee that the review of the standard was not completed yet and requested the committee some more time to complete the review of the standard. The committee after deliberation requested **D & H Sechron** to submit their recommendations latest by 30th November 2021.  During the 21st meeting Shri Zakir Hussain, D & H Sechron informed the committee that the review of the standard was not completed yet and requested the committee some more time to complete the review of the standard. The committee after deliberation requested **D & H Sechron** to submit their recommendations before **31st August 2022.**  Meanwhile member secretary has reviewed IS 1395 w.r.t. ISO 18275 : 2018 and observed that IS 1395 may be revised by adopting ISO 18275 : 2018 as it contains all the relevant grades mentioned in IS 1395.  The committee in its 22nd meeting after deliberation decided to revise IS 1395 by adopting ISO 18275 : 2018 as 18275 : 2018 contains all the relevant grades of low alloy steel covered electrodes for manual metal arc welding as mentioned in IS 1395 and send the document for Wide Circulation for the period of 1 month. Also, Member secretary informed the committee that ISO 3580 : 2017 contains all the relevant grades of medium alloy steel covered electrodes for manual metal arc welding. The committee after deliberation decided to also adopt ISO 3580 : 2017 as a new standard and send the document for Wide Circulation for the period of 1 month.  The document **MTD/11/23173** was wide circulated on 22-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft document still needs to be finalized. | The committee noted the information. |
|  | **IS 5206 : 1983 - Covered electrodes for manual metal arc welding of stainless steel and other similar high alloy steels** | The committee in its 18th meeting decided to split the existing standard into two parts by adopting following ISO standards:  1.ISO 3580:2010 ‘Welding consumables -- Covered electrodes for manual metal arc welding of creep-resisting steels – Classification’  2.ISO 3581:2016 ‘Welding consumables -- Covered electrodes for manual metal arc welding of stainless and heat-resisting steels – Classification’  The committee in 19th meeting after deliberation constituted the following panel to review the existing standard along with ISO 3580 and ISO 3581 and give their recommendation whether ISO can be adopted and whether the same covers all the requirements of the existing standard. If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months.  **Panel 2**   1. Mr Vinay Tripathi - GEE LTD – Convenor 2. Mr P Ravi Kumar – ESAB- Member 3. Mr Haridas Mondal – Ador welding- Member 4. Mr L Praveen Kumar – WTC, BHEL – member   As no comments were received from the panel, the committee requested panel 2 to complete the work allotted to them in two months time.  During the 20th meeting Shri T.J.Prasadarao, D & H Sechron informed the committee that the review of the standard was not completed yet and requested the committee some more time to complete the review of the standard. The committee after deliberation requested **D & H Sechron** to submit their recommendations latest by 30th November 2021.  During the 21st meeting Shri Zakir Hussain, D & H Sechron informed the committee that the review of the standard was not completed yet and requested the committee to give them some more time to complete the review of the standard. The committee after deliberation requested **D & H Sechron** to submit their recommendations before **30th September 2022.**  Meanwhile member secretary reviewed IS 5206 w.r.t. ISO 3581: 2016 and observed that IS 5206 may be revised by adopting ISO 3581 : 2016 as it contains all the relevant grades mentioned in IS 5206.  The committee in its 22nd meeting after deliberation decided to revise IS 5206 by adopting ISO 3581 : 2016 as it contains all the relevant grades mentioned in IS 5206 along with other grades and send the document for wide circulation for the period of 1 month.  ISO 3581 : 2016 has been revised by ISO 3581 : 2023.  The committee in its 23rd meeting after deliberation decided to send the draft document adopting ISO 3581 : 2023 for wide circulation for the period of 30 days. | The document **MTD/11/24770** was wide circulated on 06-02-2024 for the period of 30 days. | The committee noted the information. |
|  | **IS 812 : 1957- Glossary of terms relating to welding and cutting of metals** | The committee in 18th meeting after deliberation constituted the following panel to review the existing standard along with the ISO as ISO 3580:2010 has since been revised as ISO 3580 :2017 and give their recommendation whether the ISO standards covers all the requirements of the existing standard. If not, the justification for adoption of ISO standard may be provided. Also the changes to be made in the existing Indian standard viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months.  **Panel 3**  1.Dr Shaju Albert – IGCAR – Convenor  2.Mr L Praveen Kumar – WTC, BHEL – member  As no comments were received from the panel, the committee in its 19th meeting had requested panel 3 to complete the work allotted to them in two months’ time.  During the 20th meeting Shri Shaju Albert informed the committee that the review of the standard was not completed yet and requested the committee some more time to complete the review of the standard. The committee after deliberation requested **Shri Shaju Albert** to submit their recommendations latest by 30th November 2021.  During the 21st meeting Member Secretary informed the committee that ISO 3580 : 2017 is irrelevant to the subject of IS 812 : 1957 and also informed that ISO/TR 25901 with parts is relevant to IS 812. In view of the above Dr Shaju Albert to send the various part of ISO/TR 25901 to him. The committee noted the information and after deliberation requested Shri Shaju Albert to submit their recommendations by comparing IS 812:1957 with relevant parts of ISO/TR 25901 before 31th August 2022. It was also brought to the notice of the committee that IS 812:1957 has been allocated to BIS Officer Shri Akshay kaushik as an Action Research Project.  The committee in its 22nd meeting after deliberation decided to revise IS 812 by splitting it into 4 parts and adopt ISO/TR 25901-1 : 2016 as IS 812 (Part 1), ISO 25901-2: 2022 as IS 8 12 (Part 2), ISO/TR 25901-3:2016 as IS 812 (Part 3), ISO/TR 25901- 4:2016 as IS 812 (Part4) and send the documents for wide circulation for the period of 1 month.  The documents **MTD/11/24183** { IS 812 Part 1 (adopting ISO/TR 25901-1:2016)}, **MTD/11/24184** { IS 812 Part 2 (adopting ISO 25901-2:2022)}, **MTD/11/24185** { IS 812 Part 3 (adopting ISO/TR 25901-3:2016)} and **MTD/11/24186**{ IS 812 Part 4 (adopting ISO/TR 25901-4:2016)} were Wide Circulated on 22-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft documents for printing if no comments are received on wide circulated drafts. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 5897 : 1985 - Aluminium and aluminium alloy welding rods and wires and magnesium alloy welding rods** | The committee in its 18th meeting after deliberation decided to supersede the existing standard by a new standard. The committee also decided to split the new standard in four parts by adopting following ISO standards:  1.ISO 18273:2015 - ‘Welding consumables -- Wire electrodes, wires and rods for welding of aluminium and aluminium alloys -- Classification’  2.ISO 19288:2016 - ‘Welding consumables -- Solid wire electrodes, solid wires and rods for fusion welding of magnesium and magnesium alloys -- Classification’  The committee requested member secretary to send the documents for wide circulation after receiving necessary approval from MTDC.  On review of the documents it is observed that ISO standards are only for classification whereas in IS 5897, dimensions and tolerances, spool for wire, reeling conditions, condition of rods and wires is also specified.  The committee in its 19th meeting after deliberation observed that in ISO there are separate standards for dimensions such as ISO 544. Mr P Ravi Kumar of ESAB were given the responsibility to review IS 5897:1985 and ISO 18273, ISO 19288 and give his recommendation whether the ISO standards covers all the requirements of the existing standard and the other ISO standard which needs to be adopted to cover all the requirements mentioned in Indian standards. If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard viz ISO standard may be suggested. He was requested to give his recommendation to BIS secretariat within 3 months.  Since, no comments were received, the committee in 20th meeting after deliberation decided to request **Shri Ravi Kumar, ESAB** again to submit his recommendations latest by 30th November 2021.  Since, no comments were received, the committee in 21st after deliberation requested Member Secretary **Shri Vishal Kumar Rana** to review IS 5897 : 1985 with respect to ISO 18273 : 2015 and 19288:2016 and submit his recommendations along with the draft document before **31st August 2022** as it has been allocated as an ARP to him.  The member secretary, while reviewing IS 5897 w.r.t ISO 18273: 2015, observed that IS 5897 may be revised by adopting ISO 18273: 2015 as it contains all the relevant grades mentioned in IS 5897 after adopting the relevant test method standards referred in the ISO.  The committee in its 22nd meeting after deliberation decided to revise IS 5897 by adopting ISO 18273 : 2015 as it contains all the relevant grades mentioned in IS 5897 for aluminium and aluminium alloys, and also to adopt ISO 19288 : 2016 as a new standard as it contain all the consumables for welding of magnesium and magnesium alloys and send both the documents for Wide Circulation for the period of 1 month.  The document **MTD/11/23175** was wide circulated on 21-11-2023 for the period of 30 days.  The committee noted the information at Sl. No. 5 of item 3.1. and after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 1278 : 1972 - Filler Rods And Wires For Gas Welding** | The committee in the 18th meeting held on 19th February 2016 at Chennai after deliberations had advised Shri D.S.Honavar of M/s Honavar Electrodes Limited to review the standard and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  Since no comments were received, the committee in 19th meeting after deliberation decided to refer the matter to ESAB and requested them to submit their recommendation by 25th December 2016  No comments were received and the committee after deliberation gave Mr P Ravi Kumar of ESAB the responsibility to review IS 1278 : 1972 and give recommendation whether the standard needs a revision along with draft of the revised standard. He was requested to give his recommendation to BIS secretariat within 3 months.  The committee again requested Mr P Ravi Kumar of ESAB to complete the work allotted to him in two months’ time.  The committee in 20th meeting after deliberation decided to give **Shri T.J. Prasadarao** the responsibility to review IS 1278:1972 and give recommendation whether the standard needs a revision along with draft of the revised standard. The committee requested him to submit his recommendations latest by 30th November 2021.  The committee in 21st meeting after deliberation requested **Shri Zakir Hussain** to review IS 1278 : 1972 and give recommendation whether the standard needs a revision along with draft of the revised standard. The committee requested him to submit his recommendations before **31st August 2022.**  The document was not archived since there were two decisions taken by the committee one to archive and other to revise.  The committee in its 23rd meeting after deliberation and discussion decided to revise the standard and allocated the review to Shri Pankaj Jain and requested him to provide his recommendations along with a working draft before 31st January 2024. | The recommendations are still awaited. | The committee noted the information and requested Shri Pankaj Jain, M/s Association of Welding Products Manufacturers to give update on the same.  Shri Pankaj Jain informed the committee that, he is still working on this and will submit the compiled recommendations by 30th April 2024. |
|  | **IS 3600 (Part 8) : 1985 - Method of Testing Fusion Welded Joints and Weld Metal in Steel: Part 8 Nick break test and fillet weld fracture test** | The committee in the 18th meeting after deliberations had advised Dr. P. R. Venkateswaran of M/s Bharat Heavy Electricals Limited to review the standard by considering the related ISO Standards and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  As no comments were received, the committee after deliberation asked member secretary to write to them again, requesting them to submit their recommendation by 25th December 2016  The committee in 19th meeting after deliberation constituted the following panel to review the existing standard along with ISO 9017 and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and, if not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months  **Panel 4**  1. Mr L Praveen Kumar – WTC, BHEL-Convenor  2. Dr Shaju Albert – IGCAR – member  The following comments were received from Mr Lakavath Praveen Kumar    The committee deliberated on the comments received and decided to revise IS 3600 (Part 8) by adoption of ISO 9017 . The committee had decided to send the ISO standard for wide circulation for one month  While preparing the document for wide circulation it was observed that the scopes of IS 3600 (Part 8) and ISO 9017 are not in line with each other. In view of the above the committee is requested to re-examine revision of IS 3600 (Part 8) by adoption of ISO 3600 (Part 8).  The committee in 20th meeting after deliberation decided that the ISO 9017 completely covers the subject covered in IS 3600 (Part 8) and both the standards are in line with each other. In view of the above the committee decided to revise IS 3600 (Part 8) by adopting ISO 9017 and send the document for wide circulation for one month.  While wide circulating the document Head MTD observed that ISO 9017 do not completely covers theIS 3600 (Part 8) and advised member secretary to review IS 3600 (Part 8) w.r.t. ISO 9017.  The member secretary, while reviewing IS 3600(Part 8) w.r.t ISO 9017 :2017, observed that IS 3600(Part 8) may be revised by adopting ISO 9017: 2017 as it contains Nick break test and fillet weld fracture test as mentioned in IS 3600(Part 8). Hence, the documents needs to be wide circulated for the period of 1 month.  The committee in its 22nd meeting after deliberation decided to revise IS 3600 (Part 8) by adopting ISO 9017 :2017 as it contains all the relevant test methods and procedures mentioned in IS 3600(Part 8) and send the document for wide circulation for the period of 1 month. If no comments were received send the document for printing.  The document **MTD/11/17166** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The document was finalized and sent for printing. | The committee noted the information. |
|  | **IS 5511 : 1991 - Covered electrodes for manual metal arc welding of cast iron** | The committee in the 18th meeting after deliberations had advised Dr. Shaju K. Albert of M/s Indira Gandhi Center for Atomic Research to review the standard by considering the ISO Standard: ISO 1071 on the subject and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  Dr. Shaju Albert requested the committee to give more time to review the standard and informed the committee that he would submit his recommendations by 25th December 2016  The following recommendation has been received from Dr. P.R.Venkateswaran of BHEL.  *It is recommended that the existing standard be considered for revision by constitution of a suitable committee by MTD 11*.  The committee after deliberation gave Mr P Ravi Kumar of ESAB the responsibility to review the existing standard along with the mentioned ISO standards and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard viz a viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months. Mr Ravi Kumar informed that he would also seek help from EWAC Alloys limited, their sister concern who are into the business of welding of cast iron business for reviewing the standard. The same was agreed by the committee.  As no comments were received, the committee in 19th meeting requested Mr P Ravi Kumar of ESAB to complete the work allotted to them in two months’ time.  If recommended for adoption of ISO standard, the same shall be sent for wide circulation for one month  The committee in 20th meeting after deliberation decided to request **Ador Welding** to review the standard by considering ISO 1071 on the subject and give their recommendations latest by 30th November 2021.  The committee in 21st meeting after deliberation requested **Ador Welding** to review the standard by considering ISO 1071 on the subject and give their comments before **31st August 2022.**  Meanwhile member secretary reviewed IS 5511 w.r.t. ISO 1071: 2015 and observed that IS 5511 may be revised by adopting ISO 1071 : 2015 as it contains all the relevant grades mentioned in IS 5511.  The committee noted the information at Sl. No. 9 of item 3.1 and after deliberation decided to revise IS 5511 by adopting ISO 1071 : 2015 as it contains all the relevant grades mentioned in IS 5511 and send the document for wide circulation for the period of 1 month.  The document **MTD/11/23176** was wide circulated on 21-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 11368 (Pt 1) : 1985 - Comparison of Indian and overseas classification and coding of welding filler materials Part 1 Flux coated mild steel and medium tensile steel electrodes for manual metal arc welding** | The committee in the 19th meeting after deliberations had advised Dr P. R. Venkateswaran of M/s Bharat Heavy Electricals Limited to review the standard and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  The Committee further advised him the feasibility of revising the standard as a “Project” that can be taken up by M/s BHEL (WRI) and advised him to submit the project report prepared by M/s BHEL (WRI) on the same for further deliberations in the next meeting of the Committee. The Committee recommended BIS to bear the cost of the above project.  The committee noted that no comments have been received and after deliberation commented that “since no progress has been made in this regard BHEL is requested to critically review the utility of this standard and consider it for revision or withdrawal in light of ease of access of information available in various fora”.  The committee after deliberation constituted the following panel to review the existing standard and give their recommendation for revision of the standard along with the revised draft to BIS secretariat within 3 months  **Panel 5**   1. Mr P Ravi Kumar – ESAB– Convenor 2. Mr Vinay Tripathi - GEE LTD – Member   As no comments were received, the committee in its 20th meeting after deliberation decided to give the work of reviewing the standard to **Shri T. Prasada Rao, D&H Secheron Electrodes Pvt Ltd** and submit his recommendations latest by 30th November 2021.  The committee in its 21st meeting after deliberation requested Shri **T. Prasada Rao, D&H Secheron Electrodes Pvt Ltd** to review IS 11368 (Part1):1985 and submit his recommendations latest by **31st August 2022.**  The committee after deliberation decided that IS 11369 Part 1 and ISO 544 : 2017 covers different subject and decided to review IS 11368 (Pt 1) : 1985 again by T.J . Prasada Rao and to adopt ISO 544 as a new subject separately and send the document for Wide Circulation for the period of 1 month.  The recommendations are still awaited for IS 11368 (Pt 1) : 1985.  The committee in its 23rd meeting after deliberation again requested Shri **T. J. Prasada Rao** to review IS 11368 (Part1) : 1985 and submit his recommendations latest by **31st January 2024.** | The recommendations are still awaited. | The committee noted the information and requested Shri T. J. Prasada Rao, M/s D & H Secheron Electrodes Private Limited to give update on the same.  Shri T. J. Prasada Rao informed the committee that, he is working on this and will submit the final recommendation by next fortnight. |
|  | **IS 5898 : 1970 - Copper and Copper Alloy Bare Solid Welding Rods and Electrodes** | The committee in the 18th meeting after deliberations had advised Dr. Shaju K. Albert of M/s Indira Gandhi Center for Atomic Research to review the standard by considering the ISO Standard: ISO 24373 on the subject and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  Dr. Shaju Albert requested the committee to give more time to review the standard and informed the committee that he would submit his recommendations by 25th December 2016.  The committee in 19th meeting after deliberation gave Mr P Ravi kumar of ESAB the responsibility to review the existing standard along with the mentioned ISO standards ISO 24373 and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and If not, the justification for adoption of ISO standard. Also, the changes to be made in the existing Indian Standard viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months. Mr Ravi Kumar informed that he would also seek help from Senor metals who are into nonferrous business for reviewing the standard.  Since, no comments were received, the committee in 20th meeting after deliberation decided to request **Shri Harish Khuranna** of Indian Institute of Welding to review the standard by considering the ISO 24373 on the subject and to give his recommendations for further deliberations on the same. Committee also requested Shri Harish Khuranna to contact manufacturers of copper rods and electrodes for the same and submit his recommendations latest by 30th November 2021.  The committee in 21st meeting after deliberation requested **Shri Harish Khuranna** of Indian Institute of Welding to review the standard by considering the ISO 24373 on the subject and to give his recommendations before **31st August 2022** by contacting manufacturers of copper rods and electrodes for the same.  Meanwhile member secretary reviewed IS 5898 w.r.t. ISO 24373 :2018 and observed that IS 5898 may be revised by adopting ISO 24373 : 2018 as it contains all the relevant grades mentioned in IS 5898.  The committee in its 22nd meeting after deliberation decided to revise IS 5898 by adopting ISO 24373 : 2018 as it contains all the relevant grades mentioned in IS 5898 and send the document for wide circulation for the period of 1 month.  The document **MTD/11/23177** was wide circulated on 21-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 5857 : 1970 - Nickel and nickel alloy bare solid welding rods and electrodes** | The committee in the 18th meeting after deliberations had advised Dr. Shaju K. Albert of M/s Indira Gandhi Center for Atomic Research to review the standard by considering the ISO Standard: ISO 18274 on the subject and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  Dr. Shaju Albert requested the committee to give more time to review the standard and informed the committee that he would submit his recommendations by 25th December 2016.  The committee after deliberation gave Mr Haridas Mondal of Ador welding the responsibility to review the existing standard along with the mentioned ISO standards and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and. If not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian Standard viz a viz ISO standard may be suggested.  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee had requested Mr. Haridas Mondal to complete the work allotted to him in two months time.  If recommended for adoption of ISO standard, the same shall be sent for wide circulation for one month.  The committee in 20th meeting after detailed deliberation conceded to the request of **M/s Ador welding** limited to give some more time to review the standard. The committee advised **M/s Ador welding** to consider ISO 18274 while reviewing the standard and submit their recommendation latest by 30th November 2021.  Since, no comments were received, the committee in its 21st meeting after detailed deliberation decided to send the draft received from BIS officer to **Shri Vinay Tripathi GEE Ltd**. For review and updating the designation of grades and submit the updated draft standard before **30th September 2022.**  Meanwhile member secretary reviewed IS 5857 w.r.t. ISO 18274 : 2023 and observed that IS 5857 may be revised by adopting ISO 18274 : 2023 as it contains all the relevant grades mentioned in IS 5857.  The committee in its 22nd meeting after deliberation decided to revise IS 5857 by adopting ISO 18274 : 2023 as it contains all the relevant grades mentioned in IS 5857 and send the document for wide circulation for the period of 1 month.  The document **MTD/11/23178** was wide circulated on 21-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 8736 : 1977 - Nickel and nickel alloy covered electrodes for metal arc welding** | The committee in the 18th meeting after deliberations had advised Dr. Shaju K. Albert of M/s Indira Gandhi Center for Atomic Research to review the standard by considering the ISO Standard: ISO 14172 on the subject and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  Dr. Shaju Albert requested the committee to give more time to review the standard and informed the committee that he would submit his recommendations by 25th December 2016.  The committee in 19th meeting after deliberation gave Mr Haridas Mondal of Ador welding the responsibility to review the existing standard along with the mentioned ISO standards and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and. If not, the justification for adoption of ISO standard may be provided. Also the changes to be made in the existing Indian standard viz a viz ISO standard may be suggested.  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee requested Mr. Haridas Mondal to complete the work allotted to him in two months’ time.  If recommended for adoption of ISO standard, the same shall be sent for wide circulation for one month.  The committee in the 20th meeting after detailed deliberation conceded to the request of **M/s Ador welding** limited to give some more time to review the standard. The committee advised M/s Ador welding to consider ISO 14172 while reviewing the standard and submit their recommendation latest by 30th November 2021.  Since, no comments were received, the committee in its 21st meeting after detailed deliberation requested **M/s Ador welding** to consider ISO 14172 while reviewing the standard and submit their recommendation before **31st August 2022.**  Meanwhile member secretary reviewed IS 8736 w.r.t. ISO 14172 :2015 and observed that IS 8736 may be revised by adopting ISO 14172 : 2015 as it contains all the relevant grades mentioned in IS 8736.  The committee inits 22nd meeting decided to revise IS 8736 by adopting ISO 14172 : 2015 as it contains all the relevant grades mentioned in IS 8736 and send the document for wide circulation for the period of 1 month.  ISO 14172 :2015 has been revised by ISO 14172 : 2023.  The committee in its 23rd meeting after deliberation decided to send the draft document adopting 14172 : 2023 for wide circulation for the period of 30 days. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 7303 : 1974 - Covered electrodes for surfacing of metal by manual arc welding** | The committee in the 18th meeting after deliberations had advised Dr P. R. Venkateswaran of M/s Bharat Heavy Electricals Limited to review the standard by considering the AWS Standard: A-5.13 on the subject and to give his recommendation for further deliberations on the same in the next meeting of the Committee.  The committee noted the information that no comments have been received and after deliberation member secretary to write to them again, requesting them to submit their recommendation by 25th December 2016  The following recommendation has been received from Dr. P.R.Venkateswaran of BHEL.  *It is regretted that concerned expertise that was available with BHEL superannuated and hence suitable justification for the subject purpose is difficult to be obtained. Hence, it is recommended that alternate options may be explored for this purpose.*  Comments awaited. Reminder sent on 06/112019 and 20/2/2020.  The committee in 19th meeting after deliberation had requested Mr L Praveen Kumar from BHEL to review the existing standard along with relevant ISO standard and give recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and, if not, the justification for adoption of ISO standard may be provided. Also, the changes to be made in the existing Indian standard for example, ISO standard may be suggested. He was requested to give recommendation to BIS secretariat within 3 months.  The committee noted the information at Sl. No.23 of item 2.1 and after deliberation decided to form Panel 10 consisting of following members:   1. Shri G Harikrishna, BHEL, convenor 2. Shri Praveen, BEML 3. Shri Rohit Raut, Ador Welding Ltd   The committee in 20th meeting requested the **panel** to review the standard by considering the corresponding ISO standard as well as AWS Standard: A-5.13 on the subject. The committee advised the panel to submit its recommendations latest by 30th November 2021.  The committee in its 21st meeting after deliberation requested **Panel 10** consisting of following members:  1. Shri G Harikrishna, BHEL  2. Shri Praveen, BEML , convenor  3. Shri Rohit Raut, Ador Welding Ltd  To review the standard by considering the corresponding ISO standard as well as AWS Standard: A-5.13 on the subject. The committee advised the panel to submit the recommendations before **31st August 2022.**  The committee after deliberation requested Shri Praveen, BEML to submit the recommendations latest by 15th July 2023.  The recommendations are still awaited.  The committee in its 23rd meeting after deliberation and discussion decided to allocate the review to Shri Pankaj Jain and requested him to provide his recommendations along with a working draft before 31st January 2024. | The recommendations are still awaited.  **The committee may deliberate and decide.** | Shri Somnath Chakravarty, M/s Association of Welding Products Manufacturers informed the committee that, he will submit the recommendations by 31st March 2024. |
|  | **Seeking feedback for adoption of ISO 2560 in place of IS 814 : 2004 - Covered electrodes for manual metal arc welding of carbon and carbon manganese steel - Specification (Sixth Revision)** | To seek feedback from manufacturers on adopting ISO 2560 as IS 814:2004. The committee requested member secretary to make a comparison between scopes of both the standards and send it to the stakeholders using the standard for their comments.  Mail comparing the scopes sent to the stakeholders. Reply awaited  The committee after deliberation constituted the following panel 8 to review IS 814 viz a viz ISO 2560 and give recommendation whether the ISO standard needs to be adopted and the changes in ISO standard viz a viz Indian standard  **Panel 8**   1. Mr Haridas Mondal – Ador welding-– Convenor 2. Mr P Ravi Kumar – ESAB- Member 3. Mr Vinay Tripathi - GEE LTD Member 4. Mr Rajeev Khanna- Asian Industires- Member 5. Association of welding products manufacturers   The panel was requested to give their recommendation in three months’ time to BIS.  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee had requested Panel 8 to complete the work allotted to them in two months’ time.  The committee noted the information at Sl. No.24 of item 2.1. It was informed by the panel that it will not be possible to revise IS 814 by adopting ISO 2560 as the subject is not covered completely in the ISO standard. The committee accepted the recommendations of panel and decided not to revise the standard by adopting the ISO standard.  In view of the above the committee decided to dissolve panel 8 and to constitute a panel 11 consisting of following members:   1. Shri Haridas Mondal – Convenor 2. Shri P Ravi Kumar, ESAB 3. D&H Secheron Electrodes Pvt Ltd (To be represented by Shri T.J. Prasada Rao) 4. Shri Ravi Ranjan – M/s V J electrodes   The committee advised **the panel** to revise the standard in line with corresponding ISO standards and submit the draft revision of the standard latest by 15 December 2021.  Also comments from RDSO were received on IS 814 which were circulated among committee members via email dated February 10, 2022.    The committee in its 21st meeting after deliberation the committee decided to reconstitute **panel 11** consisting of following members:  1. Shri P Ravi Kumar, ESAB  2. D&H Secheron Electrodes Pvt Ltd (To be represented by Shri T.J. Prasada Rao)  3. Dr Shaju Albert  4. Shri Vinay Tripathi- GEE Ltd.  5. RDSO, Lucknow  The committee advised the panel to revise the standard in line with corresponding ISO standards and submit the draft revision of the standard latest by **30th September 2022.**  Meanwhile member secretary reviewed IS 814 w.r.t. ISO 2560: 2020 and observed that IS 814 may be revised by adopting ISO 2560: 2020 as it contains all the relevant grades mentioned in IS 814.  The committee in its 22nd meeting after deliberation decided to revise is 814 by adopting iso 2560 : 2020 as it contains all the relevant grades mentioned in is 814 and send the document for wide circulation for the period of 1 month.  Head MTD had suggested to formulate Indigenous standard on the subject since, it is already under certification and a lot of licensee and industry are currently using this standard.  The committee in its 23rd meeting after deliberation and discussion decided to revise IS 814 as an indigenous standard and formed a panel with the following members and requested the panel to submit working draft :   1. **Shri Sundar Singh** – NPCIL 2. **Shri Lakavath Praveen Kumar** – BHEL 3. **Shri T.J. Prasada Rao** - D & H Secheron Electrodes Pvt. Ltd. 4. **Shri Hariganesh Ramamurthy** – Ador Welding Ltd. 5. **Shri Pankaj Jain** – AWPM | The panel meeting still needs to be conducted. | Since, the panel meeting is yet to be conducted, therefore, member secretary proposed that, revision of IS 814 will be taken up after IS 6419, since revision of IS 6419 is being done on priority basis due to some implementation challenges involved. |
|  | **Review of IS 3600(Part 4): 1984-Method of testing fusion welded joints and weld metal in steel Part 4 Longitudinal tensile test on cylindrical all weld metal test pieces using butt joints** | The Committee in 17th Meeting of MTD 11 Dr Shaju Albert to review IS 3600 (Part 4) : 1984 and consider ISO 15792 and ISO 5178 for possible adoption and to give his recommendations for further deliberations.  The committee after deliberation constituted the following panel to review the existing standard alongwith ISO 15792 and ISO 5178 standards and give their recommendation whether the ISO standard can be adopted in identical. They were also requested to give recommendation whether the ISO standard covers all the requirements of the existing standard and If not, the justification for adoption of ISO standard may be provided. Also the changes to be made in the existing Indian standard viz a viz ISO standard may be suggested. They were requested to give their recommendation to BIS secretariat within 3 months  **Panel 4**   1. Mr L Praveen Kumar – WTC, BHEL-Convenor 2. Dr Shaju Albert – IGCAR – – member   Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee requested Panel 4 to complete the work allotted to them in two months’ time. If recommended for adoption of ISO standard, the same shall be sent for wide circulation for one month.  The committee in 20th meeting after detailed deliberation agreed to the request of the **Panel** to give some more time to review the standard with respect to corresponding ISO standard. The committee requested the panel to kindly submit their recommendations latest by 30th November 2021.  Since, no comments were received, the committee in its 21st meeting after detailed deliberation requested **panel** to submit their recommendations before **30th September 2022.**  Member secretary submitted the ARP report in which, it has been clearly observed that the subject of longitudinal tensile test on weld metal in steel is completely covered under ISO 5178 : 2019 Destructive tests on welds in metallic materials — Longitudinal tensile test on weld metal in fusion welded joints which covers all metallic materials. Hence, it is recommended that this standard IS 3600 (Part 4) : 1984 should be revised by adopting ISO 5178 : 2019.  The committee after deliberation decided to revise IS 3600 (Part 4) by adopting ISO 5178 : 2019 as it contains all the relevant test methods and procedures mentioned in IS 3600(Part 4) and send the document for wide circulation for the period of 1 month.  The document **MTD/11/21493** was wide circulated on 14-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The document was finalized and sent for printing. | The committee noted the information. |
|  | **Review of IS 4353 : 1995 -**  **Submerged arc welding of mild steel and low alloy steels - Recommendations (First Revision)** | To request Cochin Shipyard to review IS 4353:1995. Dr Shaju Albert mentioned that he will follow up with cochin shipyard for review of said standard  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee had requested Dr Shaju Albert to kindly follow up with cochin shipyard to complete the work allotted to them in two month time.  In 20th meeting Dr Shaju Albert, IGCAR, informed the committee that he could not contact Cochin Shipyard during the period and requested the committee to give some more. The committee requested **Dr Shaju Albert** to kindly complete the work allotted to him latest by 30th November 2021.  The committee in its 21st meeting after detailed deliberation requested **Sh. Praveen of BEML** to kindly review the standard and submit their recommendations before **31st August 2022.**  The committee after deliberation requested Sh. Praveen to submit his recommendations latest by 30th June 2023.  The recommendations are still awaited.  The committee in its 23rd meeting after deliberation again requested **Sh. Praveen** to submit his recommendations latest by **31st January 2024.** | The recommendations are still awaited. | The committee noted the information and after deliberation allocated the standard to Shri Somnath Chakravarty, M/s AWPM, as Shri Praveen was absent from the meeting and requested Shri Somnath to give recommendation for revision of IS 4353 by 30th April 2024.  Chairperson, Shri Shaju Albert advised member secretary to write to Shri Praveen and then allocate the standard to M/s Ador Welding Limited and Shri Somnath. |
|  | **Review of IS 5139 : 1995 -**  **Repair of cast iron castings by Oxy - Acetylene and manual metal arc welding - Recommendations (First Revision)** | To send IS 5139:1995 to MTD 6 and BEML for review.  The committee after deliberation gave Mr P Ravi Kumar of ESAB the responsibility to review the existing standard and suggest whether the revision for the same is required along with a draft of revised standard. They were requested to give their recommendation to BIS secretariat within 3 months. Mr Ravi Kumar informed that he would also seek help from EWAC Alloys limited, their sister concern who are into this business for reviewing the standard.  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee had requested Mr P Ravi Kumar to complete the work allotted to him in two months’ time.  The committee in 20th meeting after deliberation decided to request **Shri Ravi Kumar** again to complete the work allotted latest by 30th November 2021.  The committee in its 21st meeting after detailed deliberation on the comments received from BEML the committee agreed on the comments as follows:      And requested member secretary to formulate the draft document based on the comments finalized as above and send for P-circulation for one month.  The draft document was sent for P-circulation for one month and no comments were received.  Since, no comments were received the committee in its 22nd meeting after deliberation decided to send the document for Wide circulation for the period of 1 month.  The document **MTD/11/21536** was wide circulated on 30-11-2023 for the period of 30 days.  The committee noted the information at Sl. No. 23 of item 3.1 and after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | During wide circulation, the following comments were received. | The committee after deliberation agreed on the comments and decided to incorporate changes and send the document for printing after finalization |
|  | **Review of IS 10178 : 1995 – CO2 Gas Shielded Metal - Arc Welding Of Structural Steels –Recommendations (First Revision)** | To send IS 10178:1995 to Shri M. Venkateshvar of L&T for review.  The committee after deliberation gave Mr Harish Khurana of IIW the responsibility to review the existing standard and suggest whether the revision for the same is required along with draft of revised standard. They were requested to give their recommendation to BIS secretariat within 3 months  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee requested Mr Harish Khurana to complete the work allotted to him in two month time.  The committee in 20th meeting after deliberation decided to request **Shri Harish Khuranna** again to complete work allotted latest by 30th November 2021.  Since, no comments were received, the committee in its 21st meeting after deliberation decided to request **Shri Harish Khurana** again to complete work allotted latest by **30th September 2022.**  The committee in its 22nd meeting after deliberation requested Shri Harish Khuranna to submit his recommendations latest by 31st July 2023.  The recommendations are still awaited.  The committee in its 23rd meeting after deliberation decided to reaffirm the standard. | The standard has been reaffirmed. | The committee noted the information. |
|  | **Review of IS 10801 : 1984 - Recommended procedure for heat treatment of welded fabrication** | To request Dr. Shaju Albert to review IS 10801:1984 for possible ISO adoption  DR Shaju agreed that he will review and give his recommendation to BIS in three month time.  Comments awaited. Reminder sent on 6/112019 and 20/2/2020.  The committee requested Dr Shaju Albert to complete the work allotted to him in two months’ time.  In 20th meeting Dr Shaju Albert informed the committee that he could not complete the work allotted to him due to paucity of time and requested the committee for some more time. The committee requested **Dr Shaju Albert** to review the standard for possible ISO adoption and give his recommendation latest by 30th November 2021.  Since, no comments were received, the committee in its 21st meeting after deliberation requested **Dr Shaju Albert** to review the standard for possible ISO adoption and give his recommendation latest by **31st August 2022.**  The committee after deliberation requested Dr Shaju Albert to submit the draft document latest by 31st July 2023.  The recommendations are still awaited.  The committee in its 23rd meeting after deliberation requested **Dr Shaju Albert** to give his recommendations before **31st January 2024.** | The recommendations are still awaited. | The committee noted the information and requested Dr Shaju Albert to give update on the same.  Dr Shaju Albert informed the committee that he will submit the recommendations by the 31st March 2024. |
|  | **IS 1024 : 1999 Use of Welding In Bridges And Structures Subject To Dynamic Loading - Code Of Practice (second revision )** | We had received a note from Ministry wherein it has been advised to issue amendment to IS 1024:1999 stating that  “The references for stress calculation in page No. 5 of IS 1024 : 1999 needs to be updated in page No. 3 of IS 2062 : 2011".  The committee observed that IS 2062 has since been revised, IS 8500 has been withdrawn and the values mentioned in table under clause 7.4 are for convenience. Thus the committee after deliberation decided that the entire table under clause 7.4 may be deleted.  Since the standard also applies to the design, different stresses to be considered for the design, and construction of the bridges. it was decided that the draft amendment incorporating the above decision of MTD 11 sectional committee shall also be sent to Civil engineering department of BIS for their views . If no comments are received on the draft amendment from MTD and CED, the amendment may be sent for wide circulation for one month. In case no comments are received in wide circulation, the amendment may be sent for printing.  The committee in 20th meeting after deliberation decided to send the draft amendment to Civil Engineering Department seeking their comments on the same.  The Committee further decided that if no comments are received on the draft amendment from MTD and CED, the amendment may be sent for wide circulation for one month. In case no comments are received in wide circulation, the amendment may be sent for printing with the approval of the Chairman, MTD 11.  The committee in its 21st meeting after deliberation decided to send the draft amendment for wide circulation for one month.  While sending the Amendment-1 of IS 1024 for Wide circulation, member secretary observed that IS 1024 is a pre-2000 standard which needs to be revised. Hence a draft document is prepared incorporating the draft amendment.  The committee in its 22nd meeting decided to send the document for wide circulation for the period of 1 month.  The document **MTD/11/22285** was wide circulated on 21-11-2023 for the period of 30 days.  The committee noted the information at Sl. No. 26 of item 3.1. and after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | During wide circulation, the following comments were received. | The committee deliberated on the comments by Dr Shaju Albert and decided as given below:   * The committee decided to replace ‘results in’ and ‘shall be’ with ‘as require’ and ‘may be’ respectively. * The committee agreed on the comment by Dr Shaju at Clause 6.3.   After incorporating these suggested modifications send the document for printing post finalization. |
|  | **Standard formulation on ‘Code Of Practice For Training And Testing Of Metal Arc Welders Part 3 Gas Tungsten Arc Welding’** | The committee in its 21st meeting after detailed deliberation decided to take it as new subject and assigned the task to formulate the draft document to Sh. M Krishanmoorthy of IGCAR on the subject mentioned.  The committee in its 22nd meeting after deliberation again requested Shri M Krishnamoorthy to submit his recommendations with a draft document latest by 31st July 2023.  The recommendations are still awaited.  The committee in its 23rd meeting again requested Shri M. Krishnamoorthy to submit his recommendations by 31st January 2024. | The recommendations are still awaited. | The committee noted the information and requested Shri M. Krishnamoorthy to give update on the same.  Shri M. Krishnamoorthy informed the committee that he will submit the recommendations by the end of April 2024. He also requested member secretary to send the international standards. |
|  | **IS 11802 : 1986 Methods for determination of diffusible hydrogen content of deposited weld metal from covered electrodes in welding mild and low alloy steels** | The committee in its 21st meeting agreed to revise IS 11802 : 1986 and allocated the review of standard as an ARP to Dr Shaju Albert and requested to submit the draft document before 30th September 2022.  ISO 3690 : 2018 - Welding and allied processes — Determination of hydrogen content in arc weld metal  The committee in its 22nd meeting after deliberation decided to revise IS 11802 by adopting ISO 3690 : 2018 as it contains all the relevant grades mentioned in IS 11802 and send the document for wide circulation for the period of 1 month.  The document **MTD/11/23214** was wide circulated on 11-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 8666 : 1977**  **Specification for copper and copper alloy covered electrodes for manual metal arc welding** | While member secretary reviewed IS 8666 w.r.t. ISO 17777 : 2016 and observed that IS 8666 may be revised by adopting ISO 17777 : 2016 as it contains all the relevant grades mentioned in IS 8666.  The committee in its 22nd meeting after deliberation decided to revise IS 8666 by adopting ISO 17777:2016 as it contains all the relevant grades mentioned in IS 8666 and send the document for wide circulation for the period of 1 month.  The document **MTD/11/23180** was wide circulated on 21-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 544 : 2017 Welding consumables - Technical delivery conditions for filler materials and fluxes - Type of product, dimensions, tolerances and markings** | The committee in its 22nd sectional committee meeting decided to adopt ISO 544 : 2017 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22952** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The document was finalized and sent for printing. | The committee noted the information. |
|  | **ISO 6847:2020 Welding consumables — Deposition of a weld metal pad for chemical analysis** | The committee in its 22nd sectional committee meeting decided to adopt ISO 6847 : 2020 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22954** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 6947:2019 Welding and allied processes — Welding positions** | The committee in its 22nd sectional committee meeting decided to adopt ISO 6947 : 2019 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22957** was wide circulated on 28-07-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The document was finalized and sent for printing. | The committee noted the information. |
|  | **ISO 12153:2022 Welding consumables — Tubular-cored electrodes for gas-shielded and non-gas-shielded metal arc welding of nickel and nickel alloys — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 12153 : 2022 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24329** was wide circulated on 06-12-2023 for the period of 30 days  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 13585:2021 Brazing — Qualification testing of brazers and brazing operators.** | The committee in its 22nd sectional committee meeting decided to adopt ISO 13585:2021 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22960** was wide circulated on 22-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | During wide circulation, the following comments were received. | The committee noted the information and after deliberation agreed on the comment by Dr Shaju and to incorporate the suggested modifications |
|  | **ISO 14171 : 2016 Welding consumables — Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of non alloy and fine grain steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 14171 : 2016 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24330** was wide circulated on 06-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 14175 : 2008 Welding consumables — Gases and gas mixtures for fusion welding and allied processes** | The committee in its 22nd sectional committee meeting decided to adopt ISO 14175 : 2008 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22962** was wide circulated on 22-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 14344 : 2010 Welding consumables — Procurement of filler materials and fluxes** | The committee in its 22nd sectional committee meeting decided to adopt ISO 14344 : 2010 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22964** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The document was finalized and sent for printing. | The committee noted the information. |
|  | **ISO 14732 : 2013 Welding personnel — Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials.** | The committee in its 22nd sectional committee meeting decided to adopt 14732:2013 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24331** was wide circulated on 06-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 15792-1 : 2020 Welding consumables — Test methods — Part 1: Preparation of all-weld metal test pieces and specimens in steel, nickel and nickel alloys** | The committee in its 22nd sectional committee meeting decided to adopt ISO 15792-1 : 2020 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22966** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 15792-2 : 2020 Welding consumables — Test methods — Part 2: Preparation of single-run and two-run technique test pieces and specimens in steel** | The committee in its 22nd sectional committee meeting decided to adopt ISO 15792-2 : 2020 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22968** was wide circulated on 04-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 15792-3:2011 Welding consumables — Test methods — Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld** | The committee in its 22nd sectional committee meeting decided to adopt ISO 15792-3 : 2011 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22969** was wide circulated on 03-08-2023 for the period of 30 days and no comments were received.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 17633:2017 Welding consumables — Tubular cored electrodes and rods for gas shielded and non-gas shielded metal arc welding of stainless and heat-resisting steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 17633 : 2017 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24320** was wide circulated on 05-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 17634:2015 Welding consumables — Tubular cored electrodes for gas shielded metal arc welding of creep-resisting steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 17634:2015 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24321** was wide circulated on 05-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 17779:2021 Brazing — Specification and qualification of brazing procedures for metallic materials** | The committee in its 22nd sectional committee meeting decided to adopt ISO 17779 : 2021 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/22974** was wide circulated on 22-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 18276:2017 Welding consumables — Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high strength steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 18276 : 2017 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24322** was wide circulated on 05-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 24598:2019 Welding consumables — Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 24598:2019 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24324** was wide circulated on 05-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 26304:2017 Welding consumables — Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels — Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 26304:2017 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24326** was wide circulated on 06-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | ISO 19288:2016 Welding consumables - Solid wire electrodes, solid wires and rods for fusion welding of magnesium and magnesium alloys - Classification | The committee in its 22nd sectional committee meeting decided to adopt **ISO 19288:2016** as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24285** was wide circulated on 06-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 3580:2017 Welding consumables - Covered electrodes for manual metal arc welding of creep-resisting steels - Classification** | The committee in its 22nd sectional committee meeting decided to adopt ISO 3580 : 2017 as a new standard and send the document for wide circulation for the period of 30 days.  The document **MTD/11/24283** was wide circulated on 06-12-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **IS 13043 : 1991 Covered manual metal arc welding electrodes - Determination of efficiency, metal recovery and deposition co - Efficient** | The committee in its 22nd sectional committee meeting decided to revise the standard.  While member secretary reviewed IS 13043 w.r.t. ISO 2401 : 2018 and observed that IS 13043 may be revised by adopting ISO 2401 : 2018 as it contains all the relevant grades mentioned in IS 13043.  The committee in its 23rd meeting after deliberation decided to revise IS 13043 by adopting ISO 2401 : 2018 as 2401 : 2018 contains all the relevant grades mentioned in IS 13043 and send the document for Wide Circulation for the period of 1 month. | The draft documents still needs to be wide circulated. | The committee noted the information. |
|  | [**IS 15326 : Part 1: 2018**](https://www.services.bis.gov.in/php/BIS_2.0/StandardsFormulationV2/Upload3.php?ID=RUQ3WXdRbzRBdjROOXFFelpDaU10dz09)**/ISO 3834-1 : 2005 Quality requirements for fusion welding of metallic materials: Part 1 criteria for the selection of the appropriate level of quality requirements (First Revision)** | The committee in its 21st sectional committee meeting decided to revise the standard by adopting ISO 3834 - 1 : 2021.  The document **MTD/11/22276** was wide circulated on 29-11-2023 for the period of 30 days.  The committee in its 23rd meeting after deliberation decided to send the draft document for printing if no comments are received on wide circulated draft. | The draft documents still needs to be finalized. | The committee noted the information. |
|  | **ISO 13916 : 2017**  **Welding - Measurement of preheating temperature, interpass temperature and preheat maintenance temperature** | The committee in its 23rd sectional committee meeting decided to adopt ISO 13916 : 2017 as a new standard and send the document for wide circulation for the period of 30 days. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **ISO 14174:2019 Welding consumables — Fluxes for submerged arc welding and electroslag welding — Classification** | The committee in its 23rd sectional committee meeting decided to adopt ISO 14174 : 2019 as a new standard and send the document for wide circulation for the period of 30 days. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **ISO 5817:2023 Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections** | The committee in its 23rd sectional committee meeting decided to adopt ISO 5817 : 2023 as a new standard and send the document for wide circulation for the period of 30 days. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **ISO 10042 : 2018 Welding — Arc-welded joints in aluminium and its alloys — Quality levels for imperfections** | The committee in its 23rd sectional committee meeting decided to adopt ISO 10042 : 2018 as a new standard and send the document for wide circulation for the period of 30 days. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 813 (Part 1) : 2018/ ISO 2553 : 2013 Welding and Allied Processes Part 1 Symbolic Representation on Drawings — Welded Joints** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 2553 : 2019. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 813 (Part 2) : 2018/ ISO 4063 : 2009 Welding and Allied Processes Part 2 Nomenclature of Processes and Reference Numbers** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 4063 : 2023. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 3600 (Part 2) : 2022/ ISO 9016 : 2012 Method of testing fusion welded joints and weld metal in steel Part 2 Destructive tests on welds in metallic materials Impact tests Test specimen location notch orientation and examination** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 9016:2022. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 3600 (Part 3) : 2018/ ISO 4136 : 2012 Method of Testing Fusion Welded Joints and Weld Metal in Steel Part 3 Destructive Tests on Welds in Metallic Materials — Transverse Tensile Test** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 4136:2022. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 3600 (Part 5) : 2018/ ISO 5173 : 2009 Method of Testing Fusion Welded Joints and Weld Metal in Steel Part 5 Destructive Tests on Welds in Metallic Materials — Bend Tests** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 5173:2023. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 3600 (Part 9) : 2022/ ISO 17639 : 2003 Method of testing fusion welded joints and weld metal in steel Part 9 Destructive tests on welds in metallic materials Macroscopic and microscopic examination of welds** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 17639:2022. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 4972 (Part 7) : 2022/**  **ISO 1089 : 1980 Resistance Spot Welding Part 7 Electrode Taper Fits For Spot Welding Equipment - Dimensions** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 1089:2023. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 15326 (Part 5) : 2019/ ISO 3834-5 : 2015 Quality Requirements for Fusion Welding of Metallic Materials Part 5 Documents with which it is Necessary to Conform to Claim Conformity to the Quality Requirements of ISO 3834-2, ISO 3834-3 or ISO 3834-4** | The committee in its 23rd sectional committee meeting decided to revise the standard by adopting ISO 3834-5:2021. | The draft document still needs to be wide circulated. | The committee noted the information. |
|  | **IS 6419 : 1996 Welding rods and bare electrodes for gas shielded arc welding of structural steel - Specification (First Revision) Amendment - 2** | The committee in its 23rd sectional committee meeting decided to issue an amendment accepting and incorporating the following changes :   |  |  |  |  | | --- | --- | --- | --- | | **Clause** | **Comments** | **Proposed change** | **Remarks, if any** | | Clause 13.1  (Row 2, Column 2) | 420 | 400 | Nil | | Clause 13.1  (Row 2, Column 3,) | 500-640 | 490 | Nil | | Table 7 (Row 6, Column 2) | 0.07 to 0.15 | 0.06 to 0.15 | Same as suggested by Tata Steel | | The document **MTD/11/24613** was wide circulated on 09-01-2024 for the period of 30 days.  Following comments have been received: | The committee deliberated on the comments received and the decisions of the committee is attached below: |

# Item 4 Draft Standards/Amendments for Finalization

The committee noted the information.

# Item 5 Draft Standard/ Amendments for Approval for Wide Circulation

# The committee noted the information and decided that, the circulation period of the documents in WC stage should be changed from 30 days to 60 days.

# Item 6 Drafts under Preparation

# There are currently no drafts under preparation.

**Item 7 Comments on Published Standards**

**7.1** The committee reviewed the comments received on IS 6419 and after deliberation made following decisions:



**7.2** The committee reviewed the comments received on IS 1395 and after deliberation made following decisions:

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**7.3** The committee reviewed the comments received on IS 5897 and after deliberation made following decisions:



**7.4** The committee reviewed the comments received on IS 5139 and after deliberation made following decisions:

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# Item 8 New Subjects for Standardization

The committee noted the information given at Item No. 8.1 to 8.2 of the Agenda.

# Item 9 Technical Issues

The committee noted the information given at Item No. 9 of the Agenda.

# Item 10 International Activities

The committee noted the information given at Item No. 10.1 to 10.5 of the Agenda.

# Item 11 Programme of Work

**11.1** The committee noted the information given at Item No. 11.1 to 11.2.4 of the Agenda**.**

**11.2** Standards that are due for review this year are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **IS No. & Title** | **Action taken** | **Decision of the committee in 23rd meeting** | **Approval of the committee required/ Remarks** | **Decision of the committee** |
|  | **IS 15326 (Part 1) : 2018/ISO 3834-1:2005**  Quality requirements for fusion welding of metallic materials: Part 1 criteria for the selection of the appropriate level of quality requirements (First Revision) | The document **MTD/11/22276** was wide circulated on 29-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 3600 (Part 3) : 2018/ISO 4136:2012**  Method of testing fusion welded joints and weld metal in steel: Part 3 destructive tests on welds in metallic materials - Transverse tensile test (Fourth Revision) | To be revised as ISO 4136:2012 has been revised by ISO 4136:2022 | The committee noted the information and decided to send the draft document adopting ISO 4136:2022 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 3600 (Part 5) : 2018/ISO 5173:2009**  Method of testing fusion welded joints and weld metal in steel: Part 5 destructive tests on welds in metallic materials - Bend tests (Third Revision) | To be revised as ISO 5173:2009 has been revised ISO 5173:2023 | The committee noted the information and decided to send the draft document adopting ISO 5173:2023 for wide circulation for the period of 30 days. | To reaffirm and revise. | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 813 (Part 2) : 2018/ISO 4063:2009**  Welding and allied processes: Part 2 nomenclature of processes and reference numbers (Second Revision) | To be revised as ISO 4063:2009 has been revised by ISO 4063 : 2023. | The committee noted the information and decided to send the draft document adopting ISO 4063 : 2023 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 15326 (Part 5) : 2019/ISO 3834-5: 2015**  Quality requirements for fusion welding of metallic materials: Part 5 documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834 - 2, ISO 3834 - 3 or ISO 3834 - 4 (First Revision) | To be revised as ISO 3834-5: 2015 has been revised by ISO 3834-5: 2021. | The committee noted the information and decided to send the draft document adopting ISO 3834-5: 2021 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 813 (Part 1) : 2018/ISO 2553:2013**  Welding and Allied Processes Symbolic Representation on Drawings-Welded Joints | To be revised as ISO 2553:2013 has been revised by ISO 2553:2019. | The committee noted the information and decided to send the draft document adopting ISO 2553:2019 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 1179 :** 1967  Specification for equipment for eye and face protection during welding (First Revision) |  | The committee noted the information and decided to allocate the review to **Shri Pankaj Jain** and requested him to provide his recommendations along with a working draft before **31st January 2024.** | To reaffirm and revise | The committee after deliberation decided to reaffirm the standard and allocated to Shri Pankaj Jain to review the standard. |
|  | **IS 11802 :** 1986  Methods for determination of diffusible hydrogen content of deposited weld metal from covered electrodes in welding mild and low alloy steels | The document **MTD/11/23214** was wide circulated on 11-08-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 1278 :** 1972  Specification for filler rods and wires for gas welding (Second Revision) | To be archived | The committee noted the information and decided to revise the standard and allocated the review to **Shri Pankaj Jain** and requested him to provide his recommendations along with a working draft before **31st January 2024.** | To reaffirm and revise | The committee after deliberation decided to reaffirm the standard and allocated to Shri Pankaj Jain to review the standard. |
|  | **IS 13043 :** 1991  Covered manual metal arc welding electrodes - Determination of efficiency, metal recovery and deposition co - Efficient | While member secretary reviewed IS 13043 w.r.t. ISO 2401 : 2018 and observed that IS 13043 may be revised by adopting ISO 2401 : 2018 as it contains all the relevant grades mentioned in IS 13043. | The c committee noted the information and decided to revise IS 13043 by adopting ISO 2401 : 2018 as 2401 : 2018 contains all the relevant grades mentioned in IS 13043 and send the document for Wide Circulation for the period of 1 month. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 1395 :** 1982  Specification for low and medium alloy steel covered electrodes for manual metal arc welding (Third Revision | The document **MTD/11/23173** was wide circulated on 22-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 2927 :** 1975  Specification for brazing alloys (First Revision) |  | The committee noted the information and decided to revise the standard and allocated the review to **Shri Pankaj Jain** and requested him to provide his recommendations along with a working draft before **31st January 2024.** | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 3600 (Part 8) :** 1985  Method of testing fusion welded joints and weld metal in steel: Part 8 nick break test and fillet weld fracture test (Second Revision) | The document **MTD/11/17166** was wide circulated on 04-08-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 5206 :** 1983  Specification for covered electrodes for manual metal arc welding of stainless steel and other similar high alloy steels (First Revision) | ISO 3581 : 2016 has been revised by ISO 3581:2023. | The committee noted the information and decided to send the draft document adopting ISO 3581:2023 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 5511 :** 1991  Covered electrodes for manual metal arc welding of cast iron - Specification (First Revision) | The document **MTD/11/23176** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 5857 :** 1970  Specification for nickel and nickel alloy bare solid welding rods and electrodes | The document **MTD/11/23178** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 5897 :** 1985  Specification for aluminium and aluminium alloy welding rods and wires and magnesium alloy welding rods (First Revision) | The document **MTD/11/23175** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 5898 :** 1970  Specification for copper and copper alloy bare solid welding rods and electrodes | The document **MTD/11/23177** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 812 :** 1957  Glossary of terms relating to welding and cutting of metals | The documents **MTD/11/24183** { IS 812 Part 1 (adopting ISO/TR 25901-1:2016)}, **MTD/11/24184** { IS 812 Part 2 (adopting ISO 25901-2:2022)}, **MTD/11/24185** { IS 812 Part 3 (adopting ISO/TR 25901-3:2016)} and **MTD/11/24186**{ IS 812 Part 4 (adopting ISO/TR 25901-4:2016)} were Wide Circulated on 22-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft documents for printing if no comments are received on wide circulated drafts. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 8666 :** 1977  Specification for copper and copper alloy covered electrodes for manual metal arc welding | The document **MTD/11/23180** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 8736 :** 1977  Specification for nickel and nickel alloy covered electrodes for metal arc welding | ISO 14172 :2015 has been revised by ISO 14172 : 2023. | The committee noted the information and decided to send the document adopting 14172 : 2023 for wide circulation for the period of 30 days. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 1024 :** 1999  Use of welding in bridges and structures subject to dynamic loading - Code of practice (Second Revision) | The document **MTD/11/22285** was wide circulated on 21-11-2023 for the period of 30 days. | The committee noted the information and decided to send the draft document for printing if no comments are received on wide circulated draft. | To reaffirm and revise | The committee after deliberation decided to reaffirm and revise the standard. |
|  | **IS 11368 (Part 1) :** 1985  Comparison of Indian and overseas classification and coding of weldin | The recommendations are still awaited from Shri T. J. Prasada Rao | The committee noted the information and after deliberation again requested Shri **T. J. Prasada Rao** to review IS 11368 (Part1):1985 and submit his recommendations latest by **31st January 2024.** | To reaffirm and revise | The committee after deliberation decided to reaffirm the standard and allocated to Shri T. J. Prasada Rao to review the standard. |

# Item 12 R&D Projects for Establishment/Revision of Indian Standards

The committee noted the information given at Item No. 12.1 to 12.2 of the Agenda.

# Item 13 Latest Initiatives Taken by BIS

The committee noted the information given at Item No. 13.1 to 13.3 of the Agenda.

## **Item 14 Pro-Active Actions Taken for Dissemination of Information through Social Media**

The committee noted the information given at Item No. 14.1 to 14.2 of the Agenda.

# Item 15 Tasks Assigned to the Technical Committees by BIS

The committee noted the information given at Item No. 15.1 of the Agenda.

# Item 16 Date and Place of Next Meeting

The committee decided to hold the next meeting of MTD 11 for FY 2024-25 in the month of May 2024.

# Item 17 Any Other Business

**17.1** The committee after deliberation approved the Panel 12 for NOC/Clarification of IS 15769 is considered suitable for IS 6419 and IS 814 as well.

**17.2** The committee decided to nominate Dr Shaju Albert for Letter of Appreciation for FY 2022-23, considering his commendable contributions in the standards formulation in the field of Welding. As he single handedly prepared the draft of IS 18224 : 2023 General Standard for Qualification and Certification of Welding Inspection Personnel. This standard delineates a structured framework for the validation and accreditation of individuals tasked with conducting inspections for industrial welding processes. It outlines the procedures and criteria necessary for the qualification and certification of such personnel, ensuring they possess the requisite skills and knowledge to effectively assess welding operations in industrial settings.