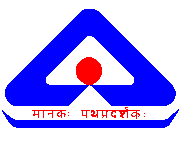
## *For BIS Use Only*



**Bureau of Indian Standards**

**भारतीय मानक ब्यूरो**

**Agenda**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Committee** | **No. of Meeting** | **Date & Day** | **Time** | **Venue** |
| **Precious Metals**  **Sectional Committee, MTD 10** | **37th** | **14 Nov 2024** | **11:00 AM** | **Hybrid- Venue – Anushilan Room, Manak Bhawan, BIS, New Delhi**  **Link-** [**https://bismanak.webex.com/bismanak/j.php?MTID=ma60933e8459d0c47f9b803f8e1059076**](https://bismanak.webex.com/bismanak/j.php?MTID=ma60933e8459d0c47f9b803f8e1059076)  **Thursday, November 14, 2024 11:00 AM | 4 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**  **Meeting number: 2515 773 9990**  **Password: 12345 (12345 when dialing from a video system)** |

**Chairman:** Shri Paravjeet Singh  **Member Secretary:** Shri Kunal Kumar

# Item 0 WELCOME AND OPENING REMARKS

# Item 1 CONFIRMATION OF MINUTES OF THE LAST MEETING AND PROCESS REFORMS

**1.1**The Minutes of 36th meeting of Precious Metals Sectional Committee, MTD 10 held on 31st May 2024 (Friday), were circulated to the members through portal as well as email on 12.06.2024. No comments received.

**The committee may consider and approve the minutes of the previous meeting.**

# Item 2 SCOPE AND COMPOSITION OF COMMITTEE

2.1 Review of the membership in the Committee - In accordance with the guidelines, the composition should be compact and the membership of the committee shall be reviewed after 3 years and the organizations representing for reasonable long time without participation/contribution may be substituted by new organization that are capable of contributing in the new technologies/area of work.

2.2 Balancing of all interested groups in the Committee - It has been decided that the composition of the Technical Committee should be reviewed to have at least two third of the committee members representing Consumers/ Technical Bodies/ R&D/ Testing Laboratories/ educational institutions/ Govt. Departments etc, and the representation of the manufacturing industries/Associations of Industries should be not more than one third of the committee members. NGO’s and Consumer Organizations may be co-opted in Technical Committees where there is no adequate representation.

2.3 The Size of the Committee -The size of the committee is often a compromise between a reasonably broad basis of representation and the need to restrict membership to workable numbers. Generally, a smaller number of memberships will be appropriate for a committee dealing with detailed aspects of a standard, with wider representation being provided at the more senior committee levels. In order to keep committee to a workable size, the strength of Sectional Committee is generally **30.**

2.4 Attendance of members in the committee –In case a member is not able to attend a meeting, prior intimation of this is necessary to be given to the Member Secretary of the Technical Committee. However, a member cannot abstain from attending two consecutive meetings of the Technical Committee, and must attend at least 50% meetings of the Technical Committee held in a year. Failure to attend two consecutive meetings of the Technical Committee and at least 50% meetings of the Technical Committee held in a year, shall attract termination of the membership of the Technical Committee, except in extra-ordinary cases to be considered by the Division Council concerned**.**

2.5 The present composition of sectional committee is given at **[ANNEXURE-1](#ANNEXURE1)**[.](#ANNEXURE1)

**2.6 Nomination of Dr.Prabhakar Sangurmath, Former Executive Director, The Hutti Gold Mines Co Ltd to act as member in MTD 10 Sectional committee as Independent Director/ individual capacity. His CV is attached.**

****

2.7 Currently there is one active panel on the portal –

#### MTD 10: P3 - Related of IS 1417 and 1418 Panel

# Item 3 ACTION TAKEN REPORT

3.1 Following documents are under printing-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | IS No. | Doc. No. | IS Title | Status |
| 1. | **IS 3095 : 1999** | MTD/10/23428 | **Gold solders for use in manufacture of jewellery specification** | **Under print** |
| Committee may please note. | | | | |

3.2 Following documents are under WC –

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | IS No. | Doc. No. | IS Title | Status | Decision of committee |
|  | **IS 2112 : 2014** | MTD 10 (23489) | **Silver and Silver Alloys, Jewellery/Artefacts – Fineness and Marking Specification** | **Modified draft sent for WC for 2 months on 20.05.2024. Total 6 comments were received. 5 were agreed with the draft and the 6th comment was to add a note in clause 7.1-** NOTE:In case a software is developed for marking every jewellery with a unique identifier the components in 7.1(c) and 7.1(d) will be replaced by the unique identification number |  |

3.3 Following documents are pending from previous meeting –

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Subject** | **Decision of the committee during the previous meeting** | **Action taken on previous minutes** | **Decision of the committee** |
| **1.** | **Draft revision of IS 1418** | The committee discussed the prepared terms of reference for the validation of test method D, as mentioned in the draft revision of IS 1418 for cupellation analysis of gold in refined bullion containing gold content above 999.5 ppt and up to 999.9 ppt fineness.  The committee approved the terms of reference after making some modifications, as attached below:    Further course of action shall be taken as per latest guideline for an R&D project.  The committee after deliberation decided to wait and proceed for comprehensive standard after the completion of this R & D project. | The project was assigned to NPL on 3rd October 2024. The duration of the project is 3 months. The committee may please deliberate and decide. |  |
| **2.** | **Amendment 2 to IS 1417:2016 Gold and Gold alloys Jewellery /Artefacts- Fineness and marking** | The committee deliberated on the comment received on the P circulation draft amendment and the decision of the committee is indicated in table below:    It is also decided to modified the Note under the clause 1.2  NOTE — Artefacts cover medallions, utensils and any article of gold.  In the 34th meeting, The committee decided to circulate the modified draft attached below to the committee members for 21 days.    In case no comments received, the above draft amendment shall be sent for wide circulation for a period of 2 months.  The modified draft circulated to the committee members vide email dated 29.11.2023.  Comments received from Shri Sabyasachi Ray vide email dated 11.12.2023 is attached**.**    Comment also received to refer new standard IS 18458: 2023 on ED-XRF for Platinum group metals.  During 35th meeting, Shri Sabyasachi Ray briefed his comment and suggested to mention Karat in place of carat in gold. Carat is generally used for diamond. Committee agreed to the proposed modification.  On refering new standard IS 18458: 2023 on ED-XRF for Platinum group metals, Mr. Akshay Kaushik, HMD informed that this was already discussed in the previous meeting and there are some works still to be done on the detection limit of the machine. All the manufacturers have to inform the detection limit till the reference material is made. Committee decided not to refer this standard at present.  The committee requested MS to circulate the modified draft to the committee members for 21 days.  In case no comments received, the above draft amendment shall be sent for wide circulation for a period of 2 months. | The modified draft circulated to the committee members vide email dated 17.05.2024.    The comments received from Shri Anil Kansara and Shri AK Bahal is attached.      The committee may please deliberate and decide.  Document was circulated on 10/07/2024. HMTD suggested to incorporate 9 Karat in the amendment as the same was already decided in the previous meeting.  The committee may please deliberate and decide. |  |
| **3.** | **Revision of IS 2112:2014 Silver and Silver Alloys, Jewellery/Artefacts – Fineness and Marking Specification** | WC Document attached above was circulated. A manak manthan was organized on WCD document by Kochi Branch Office of BIS on 23.11.2023. During manak manthan several comments were received. The comments are attached. The committee may please deliberate and decide.    **One Comment also received on portal is attached.**    During 35th meeting, the committee deliberated on the comments received and decided the following modification in the attached draft –   1. In Clause 7.3.1, preferably linear design should be permitted in place of only linear design. 2. In clause 7.3.4 C, at the end of the sentence, following should be added –“unless the weight of silver is declared by the jeweller and marked on the article by the centre”.   The committee requested MS to send the modified draft document for wide circulation for 60 days. | Modified document was circulated for WC on 20.05.2024.  MTD 10 (23489)    **Total 6 comments were received. 5 were agreed with the draft and the 6th comment was to add a note in clause 7.1-** NOTE:In case a software is developed for marking every jewellery with a unique identifier the components in 7.1(c) and 7.1(d) will be replaced by the unique identification number  The committee may please deliberate and decide. |  |
| **4.** | **New standard on spark OES** | The draft standard was received and circulated among the members of the committee before the meeting of MTD 10 held on 25 March 2010. The draft standard circulated is placed below:    Members of the committee during the meeting requested some more time to review the draft standard. The members were requested by the committee to review the draft standard and send their comments, if any, by 31st May 2019.  The committee had also requested MMTC to provide validation data for Spark OES test method which will be tabled during the next meeting of the committee.  In the last meeting of MTD 10 sectional committee held on 06 February 2020 MMTC informed the committee that they are working on providing the data and requested some more time to provide the details to the committee. The committee after deliberations requested MMTC to kindly provide the details latest by 31 July 2020.  The details received form Sh James Jose are as under:    In the 31st meeting of MTD 10, the Committee informed about the draft standard being formulated by ISO. It was requested members secretary to circulate the draft ISO standard for the views and recommendation of the members.  The ISO draft was circulated on 12.09.22 which is as under:    In response we have received only following response from Shri Pankaj Deshmukh, MMTC-PAMP:    In the 32nd meeting of MTD 10, the committee was informed about the draft spark OES standard and there was no further input from the members. It was decided that the committee will take decision on adoption of the standard after publication of the standard by ISO.  In the **33rd meeting** of MTD 10,  The following draft standard ISO/CD 18214:2022(E) circulated by ISO for comments:    The committee sought inputs from the members. Member secretary informed that the committee can nominate any expert for the ISO working group in the standard being formulated on spark OES.  In the 34th meeting, MS informed that we have received Draft International Standard ISO/DIS 18214-Jewellery and precious metals — Determination of high  purity gold, silver, platinum and palladium — Difference  method using SPARK-OES from Secretary ISO/TC 174 for member body voting which was circulated to committee members vide mail dated 09-10-2023 for their valuable comments on draft document. Please note that the last date of voting is **30 October 2023**. copy is attached below for ready reference:    The committee can also nominate any expert for the ISO working group in the standard being formulated on the above subject.  Following comments were received from the committee members on the ISO document –  (i) Shri Dinesh Singh, CSIR-NPL, - Abstain  (ii) Shri Dr SP Singh, CSIR-NPL, - Abstain  (iii) Shri Divyang Shah, GM Hindalco Industries Limited, Mumbai,  -  Proposed addition in clause 3.3- CRM should contain all the impurities in the range of Test sample.  In the 35th meeting, The committee deliberated on the comment and decided that the ISO draft document is in order.  Committee decided to adopt the ISO standard after publication of the same. | In the previous meeting, it was decided that ISO standard shall be adopted after publication of the same.  ISO 18214 : 2024 (en) is attached.    The committee may please deliberate and decide. |  |
| **5.** | **IS 17278 : 2019 Refined Gold and Silver Bars for Good Delivery — Specification** | In the 34th meeting,  Based on the input received from Shri James Jose, Member, the draft amendment prepared is placed below:    The committee discussed the draft amendment attached with agenda and suggested some changes. The modified draft amendment is attached below:    Sh James Jose was requested to prepare the technical line drawing of 100 gm bar in line with 1 kg bar as mentioned in the ANNEX B of IS 17278: 2019 and forward to BIS which will then be circulated to the committee members for their comments for 21 days and if no comments received thensend for wide circulation for the period of 60 days.  In the previous meeting, the committee requested Shri James Jose to send the technical line drawing of 100 gm bar in line with 1 kg bar as mentioned in the ANNEX B of IS 17278: 2019 to BIS.  Shri Akshay Kaushik, HMD informed that there needs few more modifications in draft amendment w.r.to clause 6.3 and Annexes.  The committee after deliberation requested MS and Shri Akshay Kaushik to prepare draft amendment and circulate to committee members for 21 days and in case no comments received, the draft shall be sent for wide circulation for 60 days. | Technical line drawing of 100 gm bar received from shri James Jose vide email dated 16.03.2024. Drawing is attached.    The Draft amendment to be finalized.  The committee may please deliberate and decide. |  |

# Item 4 ATR on DRAFTS UNDER PREPARATION

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **IS No./ Title** | **ARP allocated** | **Decision of committee in the last meeting** | **Action taken** | **Committee decision** |
|  | IS 6683 : 1998 Diameters of wires for platinum group metals and their alloys | The ARP was allotted to BIS Officer Ms Challakonda Vidisha.  ARP received from the officer. Officer has proposed to withdraw the standard. ARP is attached. | The committee discussed on the observation and recommendation given by the officer and after deliberation decided to withdraw the standard. | Approval for withdrawal shall be taken in the next MTDC meeting to be held on 19/11/2024.  The committee may please note. |  |
|  | IS 6882 : 1973 Specification for platinum electrodes | The ARP was allotted to BIS Officer Sh PRAJYOT DAHIKAR.  Reminders sent to officer, ARP report along with working draft not received so far.  In consultation with the committee, the working draft standard has been prepared and is placed below: | The committee decided to circulate the working draft to the committee members for 21 days for their comments.  In case no comments are received the document shall be sent for Wide Circulation for a period of 2 months. | Working draft was circulated to the committee members vide email dated 08.05.2025.  No comments received.  The committee may please deliberate and decide. |  |
|  | IS 9443 : 1980 Guidelines for marking purity of silver on silver articles/ornaments | The ARP was allotted to BIS Officer Sh AKSHAY KAUSHIK.  During the meeting, Shri Akshay Kaushik informed that he has prepared the ARP and will submit the ARP within 15 days. He also informed that he has proposed for withdrawal of standard. | During the meeting, Shri Akshay Kaushik informed that he has prepared the ARP and will submit the ARP within 15 days. He also informed that he has proposed for withdrawal of standard.  The committee after deliberation decided to circulate the ARP received from Mr. Akshay to the committee members for 21 days and in case no comments received, the standard shall be withdrawn as recommended. | ARP yet to receive from Shri Akshay Kaushik. |  |
|  | IS 3111: 1984 Specification for silver thread | The ARP was allotted to BIS Officer Sh N SURYANARAYANA.  Reminders sent to officer, ARP report along with working draft not received so far.  In consultation with the committee, the working draft standard has been prepared and is placed below: | The committee decided to circulate the working draft to the committee members for 21 days for their comments.  In case no comments are received the document shall be sent for Wide Circulation for a period of 2 months. | Working draft was circulated to the committee members vide email dated 08.05.2025.  No comments received.  The committee may please deliberate and decide. |  |
|  | IS 4134 : 1967 Recommended colour classification of rough diamond | The ARP was allotted to BIS Officer Sh AKSHAY KAUSHIK.  Reminders sent to officer, ARP report along with working draft not received so far.  During the meeting, Shri Akshay Kaushik informed that he has completed the ARP and will submit the ARP within 15 days. | During the meeting, Shri Akshay Kaushik informed that he has completed the ARP and will submit the ARP within 15 days.  The committee after deliberation decided to circulate the ARP received from Mr. Akshay to the committee members for 21 days. | ARP yet to receive from Shri Akshay Kaushik. |  |
|  | IS 5954 : 1985 Specification for dental white gold alloys | The ARP was allotted to BIS Officer Sh SANDESH SUDHAKAR GOKANWAR.  Reminders sent to officer, ARP report along with working draft not received so far.  In consultation with the committee, the working draft standard has been prepared and is placed below: | The committee decided to circulate the working draft to the committee members for 21 days for their comments.  Incase no comments are received the document shall be sent for Wide Circulation for a period of 2 months. | Working draft was circulated to the committee members vide email dated 08.05.2025.  No comments received.  The committee may please deliberate and decide. |  |
|  | IS 2279 : 1980 Specification for fine silver bar, sheet, wire, granules and token | The ARP was allotted to BIS Officer Sh MANVENDRA SINGH.  ARP received from the officer. ARP is attached.      Before receipt of the ARP, In consultation with the committee, the working draft standard has been prepared and is placed below: | Officer has recommended to align the chemical composition of the grades as per ASTM B413-97a (2021).  The committee after deliberation decided to circulate the ARP to the committee members for 21 days. | The ARP was circulated to the members through portal.  No comment received.  The committee may please deliberate and decide. |  |
|  | IS 12144: 1987 Specification for fine silver wire for electrical contacts | The ARP was allotted to BIS Officer Sh RAJIV RANJAN.  Reminders sent to officer, ARP report along with working draft not received so far.  In consultation with the committee, the working draft standard has been prepared and is placed below: | The committee decided to circulate the working draft to the committee members for 21 days for their comments.  Incase no comments are received the document shall be sent for Wide Circulation for a period of 2 months. | Working draft was circulated to the committee members vide email dated 08.05.2025.  No comments received.  The committee may please deliberate and decide. |  |

# ITEM 5 COMMENTS ON PUBLISHED STANDARDS

**The following comments were received from IAHC on IS 15820: 2024** –

We request BIS to kindly consider our below proposal:

  To kindly make Proficiency test voluntary till the time there minimum 20 plus PT provider all over the country .

  To conduct periodically PT training of all AHC by BIS lab.

  To Postpone the implementation date.

  To kindly update the generic manual as per new standard so there won’t be issues during audit of AHC’s.

The committee may please deliberate and decide.

**In the previous meeting, the committee decided the following –**

1. The committee agreed for inclusion of 9K (375) purity under the existing mandatory hallmarking order, 2020 for Gold jewellery/artefacts.
2. The committee agreed for implementation of HUID for Silver jewellery/ artefacts under existing voluntary regime as soon as software developed.
3. The committee discussed on introduction of compulsory bullion hallmarking through BIS recognized refineries. The committee also discussed to incorporate silver bullion. The committee after deliberation decided that at present silver bullion is not covered in the standard and Regulation needs to be modified before Introduction of compulsory bullion hallmarking through BIS recognized refineries.

# Item 6 NEW SUBJECTS

**6.1**There are currently no new proposals for proposing new subjects for national standardization which were received since last meeting

**6.2**Proforma for proposing new subjects for national standardization is attached below:



**The committee may please note**.

# Item 7 TECHNICAL ISSUES

**7.1**There are currently no technical issues

**The Committee may please note.**

# Item 8 INTERNATIONAL ACTIVITIES

## **8.1** Interaction with ISO

**8.1.1** The National Standards Bodies who are members of ISO have the right to participate in the work of its technical committees and subcommittees and working groups as participating (P members) or observer (O member) with the following responsibilities:

a) ‘P’ members have to participate actively in the work, with an obligation to vote on all questions formally submitted for voting within the technical committee or subcommittee and on draft documents at different stages or processing and, whenever possible, to participate in meeting (s).

b) `O’ members have to follow the work as an observer, and therefore, receive committee documents and have the right to submit comments and to attend meetings

c) National Bodies irrespective of their status as ‘P’ or ‘O’ member within a technical committee or subcommittee have the right to vote on draft International Standards.

**8.1.2** India is ‘P’ member on ISO Technical Committee/Sub-committee.

**ISO/TC 174** ― Jewellery.

**8.1.3** The details of the standards formulated by this ISO Technical Committee are enclosed at [**ANNEXURE-3.**](#ANNEXUREE3)

## **8.2 India’s participation in ISO meetings**

**8.2.1** India being a **`P’** member in **ISO/TC 174,‘P’**- members have to participate actively in the work, with an obligation to vote on all documents formally submitted for voting within the technical committee or subcommittee and on draft documents at different stages of processing and to participate in meeting(s), in order to place our view points on the ISO standards effectively.

**8.2.2**List of ISO ballots that are currently open for comments is as given below. Email for seeking the comments from respective committee have already been sent. If any members are interested to share any comments on the following subjects, please share your comment before end date.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **ISO Reference /Title** | **Last date of comment** | **Comments received so far** |
| 1 | Draft resolution 5/2024 Liaison ISO CASCO - Request to establish a liaison to ISO/CASCO (ISO committee for conformity assessment) | 15 Nov 2024. | Circulated to the members on 23.10.2024  through BIS IR Portal Send your Comment. |
| 2 | |  | | --- | | **Draft resolution 4/2024- Liaison with AWDC -**   Draft resolution 4/2024- Liaison with AWDC (Antwerp World Diamond Centre) | | 18 Nov 2024 | Circulated to the members on 25.10.2024  through BIS IR Portal Send your Comment. |
| 3 | **N 771 Appointment of new ISO/TC 174/WG 1 Convenor -** The secretariat would like to Nominate Dippal Manchanda as new convenor of ISO/TC 174/WG 1. Please find Dippal Manchandas CV attached to this ballot. | 21 Nov 2024 | Circulated to the members on 17.10.2024  through BIS IR Portal Send your Comment. |

**The committee may please note**

## **8.3**Harmonizing of Indian standards with ISO standards

**8.3.1** Efforts to be made to harmonize maximum number of BIS standards with ISO standards **-** While harmonizing the Indian standards with International standards the reasons/justifications are needed to be given in the foreword of Indian Standards, if there is any deviation from the provisions stipulated in the corresponding ISO standards.

**8.3.2**Members are requested to examine ISO standards vis-à-vis Indian standards and send their comments to BIS secretariat, if any so that Indian standards could be revised /harmonized on the basis of ISO standard. Comments, if any, will be tabled during the meeting for consideration of the committee.

**The committee may please note.**

# 8.4 WTO-TBT Enquiry Point

**8.4.1**World Trade Organization (WTO) is the International Organization dealing with global rules of trade between nations. The Technical Barriers to Trade Agreement (TBT) tries to ensure that Regulations, Standards, Conformity Assessment procedures do not create unnecessary obstacles to trade. Manufacturers and exporters of each country need to know about the latest standards and technical regulations in their prospective markets. To help ensure that this information is made available conveniently, all WTO member Governments are required to establish National Enquiry Point. India is a signatory to the WTO TBT Agreement. Under this Agreement, India has to fulfil certain obligations such as establishing an enquiry point and transparency of its standards and its regulations. BIS functions as the enquiry point as nominated by Ministry of Commerce, the dealing Ministry with WTO.

**8.4.2**As the WTO TBT Enquiry Point, BIS answers all the reasonable enquiries pertaining to Technical Regulation, Standards and Conformity Assessments procedures addressed to it from the Enquiry Points of other countries. It also serves as the information centre within the country. Additionally, BIS also disseminates the TBT Notifications of other member bodies to the National Stakeholders.

**8.4.3**The awareness regarding TBT notifications is lacking among various stakeholders in India and as a result India is not sending its comments on draft notifications by other countries, which may be of trade interest to India. As signatory of WTO-TBT agreement, there is a greater need for us to be aware of the TBT notifications issued by different countries in order to protect our interest.

**8.4.4** In BIS, International Relations & Technical Information Services Department (IR&TISD) operates the WTO-TBT Enquiry Point Services. IR&TISD disseminates the TBT Notifications of other countries to the Indian Stakeholders with a view to seek their comments and taking up the same at appropriate forum.

**8.4.5** The BIS technical committees have also been identified as stakeholders for the TBT Notifications and relevant notifications are being disseminated to them. The Committee members should examine the TBT Notifications with a view to protect Indian trade interest.

**8.4.6**The email address of BIS Enquiry Point is as follows:

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

**The committee may please note.**

# Item 9 PROGRAMME OF WORK

**9.1**The updated list of Indian Standards formulated by MTD-10 is given at [ANNEXURE II](#_ANNEXURE_II).

**9.2 REVIEW OF INDIAN STANDARDS**

## **9.2.1** Periodical Review of Standards-Each published Indian standard is required to be reviewed by the concerned sectional committee after every five years of its publication/Reaffirmation. The guidelines given by Standards Advisory Committee (SAC) are as follows:

**9.2.2** The review of each and every existing Indian standard shall follow the Action Research based approach. This implies that preparation of a Review Document to be put up to the committee for consideration must be preceded by the following activities:

1. Study and analysis of relevant international standards.
2. Literature survey on the subject.
3. Interaction with the industry on the changes in the technologies, manufacturing processes or test methods.
4. Visit to leading manufacturing units for the first-hand information on the manufacturing processes.
5. Interaction with BIS officers and labs for feedback on certification and test method related issues.

**9.2.3**The Action Research for the review of standards can be assigned to the member secretary of the Sectional Committee, scientific officers of BIS, members of the Sectional Committee, sub-committee or working panel, academic or research institution, industry association, a specific industry or ministry and an organization thereunder. The Sectional Committee shall decide the individuals or organizations to be assigned Action Research projects.

**9.2.4** Review of standards shall be taken up through the Review Module of the Standardization Portal. Following document will guide you:



**9.2.5** The present directives indicate that the standards fall under the above category shall be reviewed thoroughly and while reviewing following points should be considered.

i) Does the Standard meet the present demand of the industry and the consumers?

ii) Is it compatible with the available international standards,

iii) Whether these standards are required to be continued or not,

iv) Prospective implementation of the standard,

The committee may please note.

9.3 Review of A5/Pre 2000 Standards – As a new initiative taken by BIS, standards which have been formulated several years ago (prior to 2000) are to be reviewed in order to bring them in line with the current practices being followed in the industries. The committee may suggest the members to take up the Action Research for these Standards.

**9.3.1**The A5 Indian Standards of the Committee that have been identified and are due for review are given below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **IS No. and**  **Title** | **Allotted to** | **Decision of the committee in the last meeting** | **Action taken** | **Committee decision** |
|  | IS 1953: 1973  Methods of chemical analysis of silver anodes First Revision | Shri PankajDeshmukh | Committee requested Shri Deshmukh to submit his review and recommendation within 1 month. | Recommendation are still awaited. Follow up is being taken |  |
|  | IS 4703 : 1968  Methods of chemical analysis of silver - Manganese brazing alloys | Shri PankajDeshmukh | Committee requested Shri Deshmukh to submit his review and recommendation within 1 month. | Recommendation are still awaited. Follow up is being taken |  |
|  | IS 7255 (Part 1) : 1974  Methods of chemical analysis of solders for use in goldware Part 1 determination of gold silver and copper | Shri PankajDeshmukh | Committee requested Shri Deshmukh to submit his review and recommendation within 1 month. | Recommendation are still awaited. Follow up is being taken |  |
|  | IS 8858 : 1978  Method for spectrographic analysis of fine silver ingot | Shri PankajDeshmukh | Committee requested Shri Deshmukh to submit his review and recommendation within 1 month. | Recommendation are still awaited. Follow up is being taken |  |
|  | IS 2271 : 1967  Recommended method for spectrographic analysis of platinum | Sh Anil Kansara | It is suggested by Shri Anil Kansara that instead of the subject standard which is essentially mean for high grade of Platinum metal and alloy between 990 to 999 fineness, an ISO/DIS 18214**(the voting terminates on 30-10-2023)** - Jewellery and precious metals - Determination of high purity gold, silver, platinum and palladium - Difference method using Spark-OES be adopted.  After deliberation and discussion, the committee decided to circulate the draft ISO document to the committee members for 21 days for their comments.  In case no comments are received the document shall be sent for Wide Circulation for a period of 2 months | ISO standard on Spark- OES shall be adopted after publication.  The committee may please note. |  |
|  | IS 2790:1999  Guidelines for manufacture of 23 22 21 18 14 and 9 carat gold alloys Second Revision (Bilingual) | Sh Anil Kansara | The working draft standard has been received and is placed below:    The committee decided to circulate the working draft to the committee members for 21 days for their comments.  In case no comments are received the document shall be sent for Wide Circulation for a period of 2 months. | Draft document circulated to the committee members vide email dated 20/05/2024. |  |
|  | IS 13600 : 1992  Chemical analysis of silver palladium alloys | Shri Anil Kansara | It is informed by Shri Anil Kansara that IS 13600: 1992 - Chemical Analysis of Silver Palladium Alloys. has been reviewed by us and appears suitable with modifications suggested by the author.  However, attention is drawn to:  (1)  include the specification of Nitric Acid [IS 264 -2005 (R-2017)] to be used in the process ( in the draft it has been struck off )  (2) The Forward mentions that "These alloys mainly consist of silver and palladium along with platinum group metals and base metal impurities".  (3) the range as per clause 1 Scope in which the range of Pd and Silver is specified in the alloy. Without mention of any impurities, meaning the method does not address the situation if other PGM and base metal impurities are present.  (4) The subject draft is meant only for Silver and Palladium metal analysis the draft is all right.  We wish to draw your attention to a similar ISO/CD 11490 ( the technically revised version of the 1995 standard) - Determination of palladium in palladium jewellery alloys - Gravimetric determination with dimethylglyoxime.  ISO 11490 not only covers the scope of Indian Standard 13600 but also addresses to range of fineness stated as per IS 9202. (IS 2790:1999) which also is under review.  It is suggested that the latest ISO version of  11490 be adopted in its current format instead of IS 13600: 1992 (Reaffirmed 2003).  ISO 11490:2023 Jewellery and precious metals -Determination of palladium-Gravimetry using dimethylglyoxime  is placed below:    The committee after deliberation and discussion decided to adopt ISO 11490:2023 under dual numbering and the document shall be sent for Wide Circulation for a period of 60 days. |  |  |

**The Committee may please note**

9.3.2 The following standards are due for review in 2024-25 (current)-

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl No. | **IS Number**\* | **Title**\* | **Mode of Execution**\* | **Doc No.** | **Current Status**\* |
|  | **IS 12144 : 1987** | **Specification for fine silver wire for electrical contacts** | **ARP** |  | **As above** |
|  | IS 1418 : 2009 | Determination of gold in gold bullion, gold alloys and gold jewellery/artefacts - Cupellation (Fire Assay) method (Third Revision) | R&D |  | R&D allotted to NPL |
|  | IS 15329 : 2003 | Platinum and platinum alloys, jewellery/ artefacts - Fineness and marking - Specification | ARP |  | No review done |
|  | **IS 1953 : 1973** | **Methods of chemical analysis of silver anodes (First Revision)** | **Committee member** |  | **Review awaited from Mr. Pankaj Deshmukh** |
|  | IS 2113 : 2014 | Assaying silver in silver and silver alloys - Methods (Third Revision) | Committee member |  | No review done |
|  | **IS 2275 : 1984** | **Grades of platinum (First Revision)** | **Committee member** |  | **Phase-1 Review Document (Generated). As per ARP, no changes are required in the existing standard.** |
|  | IS 2767 : 1984 | Specification for gold thread (Silver Base) (First Revision) | Others |  | Review Allocated to Mr. K. Chandan Rao. |
|  | **IS 3096 : 1965** | **Specification for fine grade palladium** | **Committee member** |  | **Review document circulated to members. ARP is attached. Recommended for revision of Standard.** |
|  | IS 3112 : 1984 | Specification for gold and silver embroidery material (First Revision) | Committee member |  | Review Allocated to Ms Beauty Kumari Jha. |
|  | **IS 3571 : 1985** | **Specification for dental gold solders (First Revision)** | **Committee member** |  | **Review document circulated to members. ARP is attached. Recommended for revision of Standard.** |
|  | **IS 3578 : 1985** | **Specification for dental gold alloy wire (First Revision)** | **Committee member** |  | **Phase-1 Review Document (Generated). Review document circulated to members. ARP is attached. Recommended for revision of Standard.** |
|  | **IS 3610 : 1985** | **Specification for dental gold foil (First Re Vision)** | **Committee member** |  | **Phase-1 Review Document (Generated). Review document circulated to members. ARP is attached. Recommended for revision of Standard.** |
|  | IS 4703 : 1968 | Methods of chemical analysis of silver - Manganese brazing alloys | Committee member |  | **Review awaited from Mr. Pankaj Deshmukh** |
|  | IS 4704 : 1985 | Specification for silver-tin dental amalgam alloy (First Revision) | Committee member |  | Review Allocated to Mr. Sudhanshu Suman |
|  | IS 4705 : 1985 | Specification for dental mercury (First Revision) | Committee member |  | Review Allocated to Mr. Sudhanshu Suman |
|  | IS 4799 : 1985 | Specification for dental casting gold alloys, non - Porcelain bonding (First Revision) | Committee member |  | Review Allocated to Mr. Sudhanshu Suman |
|  | IS 6019 : 1993 | Platinum dish - Specification (First Revision) | Committee member |  | Review Allocated to Mr. Sachin Dev Meena |
|  | IS 639 : 1982 | Sbecification for gold leaf (Second Revision) | Committee member |  | Review Allocated to Mr. K. Chandan Rao |
|  | IS 6889 : 2000 | Chemical analysis of silver - Tin dental amalgam alloy - Method (First Revision) | Committee member |  | No review done |
|  | IS 6890 : Part 1 : 1989 | Chemical analysis of gold alloys dental: Part 1 determination of gold, silver, palladium and platinum (First Revision) | ARP |  | No review done |
|  | IS 7225 : 1985 | Specification for dental cobalt - Chromium casting alloy (First Revision) | Committee member |  | No review done |
|  | **IS 7255 : Part 1 : 1974** | **Methods of chemical analysis of solders for use in goldware: Part 1 determination of gold, silver and copper** | **Committee member** |  | **As above** |
|  | IS 7562 : 1974 | Specification for gold cladding | ARP |  | Review Allocation |
|  | IS 8858 : 1978 | Method for spectrographic analysis of fine silver ingot | Committee member |  | No review done |
|  | IS 8929 : 1978 | SpeciffCation for high purity gold wire for electrical contacts | ARP |  | Decision taken to Revise |
|  | IS 11095 : 1984 | Specification for bi-metallic strip and bar with precious metal on phosphor bronze base for electrical contacts | Committee member |  | Review document circulated to members |
|  | IS 6890 : Part 2 : 1975 | Methods for chemical analysis of dental gold alloys: Part 2 determination of nickel and zinc | Committee member |  | No review done |
|  | IS 7255 : Part 2 : 1977 | Methods of chemical analysis of solders for use in goldware: Part 2 determination of cadmium and zinc by polarographic method | Committee member |  | No review done |
|  | IS 15893 : 2011 | Jewellery - Gold alloy coatings | Committee member | 3736 | Published |

**9.3.3** The following standards are due for review in 2024-25 (carried over)-

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl No. | **IS Number**\* | **Title**\* | **Mode of Execution**\* | **Doc No.** | **Current Status**\* |
| 1 | IS 13600 : 1992 | Chemical analysis of silver palladium alloys | Committee member | - | No review done |
| 2 | IS 2271 : 1967 | Recommended method for spectrographic analysis of platinum | Committee member | - | Review Allocation |
| 3 | IS 2279 : 1980 | Specification for fine silver bar, sheet, wire, granules and token (First Revision) | ARP | - | Review document circulated to members |
| 4 | IS 2790 : 1999 | Guidelines for manufacture of 23,22,21,18,14 and 9 carat gold alloys (Second Revision) | Committee member | - | Review Allocation |
| **5** | **IS 3088 : 2024** | **Method for assaying of fine grade palladium** | **Member Secretary** | **20979** | **Published** |
| 6 | IS 3111 : 1984 | Specification for silver thread (First Revision) | ARP | - | Review Allocation |
| 7 | IS 4134 : 1967 | Recommended colour classification of rough diamond | ARP | - | Review Allocation |
| 8 | IS 5954 : 1985 | Specification for dental white gold alloys (First Revision) | ARP | - | Review Allocation |
| 9 | IS 6683 : 1998 | Diameters of wires for platinum group metals and their alloys | Others | - | Phase-1 Review Document (Generated) |
| 10 | IS 6882 : 1973 | Specification for platinum electrodes | ARP | - | Phase-1 Review Document (Draft) |
| 11 | IS 9443 : 1980 | Guidelines for marking purity of silver on silver articles/ornaments | Others | - | ARP allocated to Shri Akshay Kaushik |
| **12** | **IS 9925 : 2024** | **Method for determination of gold and silver in gold and silver thread and embroidery materials** | **Member Secretary** | **21559** | Published |

**Members may suggest following options with regard to above standards:**

i)  The standards may be reaffirmed in its present form; (for standards whose year of publishing is post 2000)

ii) The standards may be reaffirmed with minor changes by issuing an amendment; (Attach the changes with due justification)

iii)  The standards may be reaffirmed with simultaneously taking up the revision; and

iv)  The standards may be withdrawn. (Provide justification)

v) The standard can be archived. (for those standards for which no change is recommended, not widely used but they are also not recommended for withdrawal )

**9.3.4** The proforma for ARP is given as given below.



# Item 10. R&D PROJECTS FOR ESTABLISHMENT/REVISION OF INDIAN STANDARDS

**10.1** The current guidelines for R&D projects for establishments /revision of Indian Standards are given:

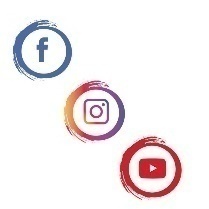
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**The Committee may please note and identify the projects to be taken up for inclusion of empirical data and insights or testing and validation of new methods.**

# Item 11. LATEST INITIATIVES TAKEN BY BIS:

## **11.1**Pro-Active Actions Taken for Dissemination of Information through Social Media:

**11.1.1** Since last meeting of the Council, a series of important Indian Standards have been published and number of workshops/seminars have been conducted by BIS for dissemination of information about these. In order to reach large number of stakeholders and communicate effectively with them, social media tools like Facebook, Instagram, WhatsApp, Twitter, LinkedIn, YouTube, etc are being utilized by BIS and the same may be followed at below mentioned links for information on BIS activities:

 Facebook: <https://www.facebook.com/IndianStandards/>

Instagram: <https://www.instagram.com/indianstandards/>

YouTube: <http://bit.ly/BISYouTubeOfficial>

Twitter logo and symbol, meaning, history, PNGLinkedIn: <http://bit.ly/BISLinkedInOfficial>

Twitter: [http://bit.ly/BISTwitterOfficial](http://bit.ly/BISTwitterOfficial%20) (@IndianStandards)

**The Committee may please note**

**11.2The Rolling Annual Action Plan for the year 2024-2025**

The standards due for review is mentioned in 9.2.

**The Committee may please note**

**11.3 Tentative Annual Calender of Technical Committee Meetings**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Quarterly meeting schedule 2024-25** | | | | | | | | | | | |
| **April ,2024** | **May ,2024** | **June ,2024** | **July ,2024** | **August ,2024** | **September ,2024** | **October ,2024** | **November ,2024** | **December ,2024** | **January ,2025** | **February ,2025** | **March ,2025** |
| **-** | **31-05-2024** | **-** | **-** | **-** | **-** | **-** | **14-11-2024** | **-** | **-** | **-** | **07-03-2025** |

**The committee may please deliberate and decide mode of meeting**

**11.4**National and International events to be participated.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Date of event** | **Name of event** | **Place of event** |
| 1. | - | - | - |

Members may suggest the events that should be attended which will be beneficial for the Member Secretary and get to connect with different stakeholder for getting them on board in the panels/Additional mailing list**.**

**11.5 Scientific Journals/Magazines to be subscribed.**

|  |  |  |
| --- | --- | --- |
| **Sl No** | **Name of journal/magazine** | **Usefulness/ Justification** |
|  |  |  |

**The members may suggest the important journals/magazines to be subscribed by BIS which would be beneficial for standardization, getting information of stakeholders, new subjects /areas for standardization.**

# ITEM 12. TASKS ASSIGNED TO THE TECHNICAL COMMITTEES BY BIS:

**12.1**In order to improve the performance of the technical committees, BIS has assigned the following tasks to the technical Committees. The Committees have work on the assigned tasks for their existence.

1. Identification of the new subjects for standardisation for 2024-25.
2. Preparation of the rolling Annual Action Plan and periodic review of the implementation there of.
3. Review of the implementation of the Standardisation National Action Plan (SNAP) in relation to the scope of work of the Technical Committee.
4. Examination of the Annual Programme for Standardisation, submitted by the Ministries/Departments of the Central Government.
5. Approve the annual calendar of Technical Committee meetings.
6. Discuss and approve the Agenda for Technical Committee Meeting.
7. Formation of Sub-committees, Panels. Working Groups and Task Forces.
8. Assigning Action Research Projects.
9. Identification of R&D projects to be commissioned by BIS and the determination of the Scope and Terms of Reference thereof.
10. Evaluation of R&D proposals received from outside organisations.
11. Examination of New Work Item Proposals (NWIP) and draft standards received from ISO/IEC.
12. Participation in the meetings of the Technical Committee or Working Groups of ISO/IEC, as and when nominated by BIS.
13. Participation if the Workshops /Seminars and Capacity-Building Programmes organized by BIS.

**The Committee may deliberate and discuss.**

# Item 13 DATE AND PLACE OF NEXT MEETING

Annual meeting calendar should be referred for deciding the date and place of next meeting.

# Item 14 ANY OTHER BUSINESS

**[ANNEXURE-1](#_Item_2_Scope)**

*(Clause 2.5)*

**COMPOSITION OF PRECIOUS METALS SECTIONAL COMMITTEE, MTD 10**

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Place** |
| **34th Meeting** | **25 October, 2023** | **Physical Meeting** |
| **35th Meeting** | **29 February, 2024** | **Virtual Meeting** |
| **36th Meeting** | **31 May, 2024** | **Hybrid Meeting** |

**Scope:** Standardization in the field of precious metals

**CHAIRMAN:** Shri Paravjeet Singh

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Name of the Organization** | **Represented by** | **34th** | **35th** | **36th** | **Total**  **Meeting** |
| 1. | Geological Survey of India ,  Shilong | Dr. Paravjeet Singh  (CHAIRMAN) | Y | Y | Y | 3/3 |
| 2. | All India Gems and Jewellery  Trade Federation, Mumbai | ShriD.D.Karel (Principal)  Shri Shri Suresh I Dhruv | Y | Y | Y | 3/3 |
| 3. | Association of gold refineries and mints | Shri Anil C. Kansara | Y | Y | Y | 3/3 |
| 4. | Bhartiya Swarnkar Sangh, Jaipur | Shri Duli Chand Karel  Shri Suratn Kumar Manish (Alternate) | Y | Y | Y | 3/3 |
| 5 | (CGR) Metalloys Private Limited, Kochi | Shri James Jose  Shri Joseph K James (Alternate) | Y | Y | Y | 3/3 |
| 6 | CSIR –  National Physical Laboratory, New Delhi | Dr SP Singh,  Shri Dinesh Singh (Alternate) | Y | Y | Y | 3/3 |
| 7 | CSIR-National Chemical Laboratory,  Pune | Dr SakjaSen  Dr. K. Krishnamoorthy (Alternate) | Y | Y | N | 2/3 |
| 8 | Consumer Guidance Society  of India , Mumbai | Shri  Sitaram Dixit  Dr. M.S. Kamath (Alternate) | N | N | Y | 1/3 |
| 9 | Gem and Jewellery Export Promotion Council ,  Mumbai | Shri  Sabyasachi Ray  Dr. Nawal Kishore Agarwal (Alternate) | Y | Y | Y | 3/3 |
| 10 | Hindalco Industries Limited, Mumbai | Shri JayeshPawar  Shri Divyang Shah (Alternate) | Y | Y | Y | 3/3 |
| 11 | India Government Mint,  Mumbai | Shri Bimal Prasad Dhal  Shri RavindraGunderao  Jadhav | Y | N | Y | 2/3 |
| 12 | Indian Association of  Hallmarking centres,  New Delhi | Shri UdayShinde  Shri AbhishekNikam (Alternate) | Y | Y | Y | 3/3 |
| 13 | Indian Bullion & Jewellers Association Limited, Mumbai | Shri Surendra Mehta  Shri Dr Chetan Kumar Mehta | Y | Y | N | 2/3 |
| 14 | Indian Diamond Institute,  Surat | Shri Samir D. Joshi  Mr Hitesh Verma (Alternate) | Y | Y | Y | 3/3 |
| 15 | Institute of Chemical  Technology , Mumbai | Prof. B.M. Bhanage  Prof. Radha V. Jayaram (Alternate) | N | Y | Y | 2/3 |
| 16 | Jalan and Company, New Delhi | Shri IshwarJalan  Shri VinayJalan(Alternate) | Y | Y | Y | 3/3 |
| 17 | MMTC-Indian Private Limited Ltd, New Delhi | Shri PankajDeshmukh  Shri AnkurGoyal(Alternate) | Y | Y | Y | 3/3 |
| 18 | National Mineral Development Corporation, Hyderabad | Shri Nikhil Kumar Sarwate  Shri R K Garg | N | N | Y | 1/3 |
| 19 | SIGMA Four, New Delhi | Shri  A.K. Behl  Smt Anita Bhatia (Alternate) | Y | Y | Y | 3/3 |
| 20 | Titan Company Ltd, Tamilnadu/Bangalore | Shri Vijayakumar T  Shri SUNDAR T(Alternate) | Y | Y | Y | 3/3 |
| 21 | Voice Society , New Delhi | Shri B.K.Mukhopadhyay  Shri M.A.U. Khan(Alternate) | Y | Y | Y | 3/3 |
| 22 | World Gold Council | Shri PR Somamundaram  Mr. AjitMauskar (Alternate) | Y | N | N | 1/3 |

# [ANNEXURE II](#_ANNEXURE_II)

**Programme of Work**

|  |
| --- |
| **MTD 10 : Precious Metals** |
| **Liaison : ISO 174-MTD 10 Array** |
| **Scope : Standardization in the field of precious metals** |

|  |
| --- |
| **Standards Published** |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SI. No. | | IS No. | | TITLE | | Reaffirm M-Y | | No. of Amds | | Eqv. | |
|  | | IS 11084 : 1984 | | Specification for silver palladium alloy wire and strip for electrical contacts | | March, 2021 | | - | | Indigenous | |
|  | | IS 11084 : 2023 | | SILVER PALLADIUM ALLOY WIRE AND STRIP FOR ELECTRICAL CONTACTS - SPECIFICATION (FIRST REVISION) | |  | | - | | Indigenous | |
|  | | IS 11095 : 1984 | | Specification for bi-metallic strip and bar with precious metal on phosphor bronze base for electrical contacts | | September, 2019 | | - | | Indigenous | |
|  | | IS 12144 : 1987 | | Specification for fine silver wire for electrical contacts | | September, 2019 | | - | | Indigenous | |
|  | | IS 12714 : 1989 | | Bimetallic tape for electrical contacts - Specification | | March, 2021 | | - | | Indigenous | |
|  | | IS 13600 : 1992 | | Chemical analysis of silver palladium alloys | | February, 2020 | | - | | Indigenous | |
|  | | IS 1417 : 2016 | | Gold and gold alloys, jewellery/ artefacts - Fineness and marking - Specification (Fourth Revision) | | March, 2021 | | 1 | | Not Equivalent | |
|  | | IS 1418 : 2009 | | Determination of gold in gold bullion, gold alloys and gold jewellery/artefacts - Cupellation (Fire Assay) method (Third Revision) | | September, 2019 | | - | | Not Equivalent | |
|  | | IS 14741 : 2020 | | Jewellery Colours of gold alloys Definition range of colours and designation | |  | | - | | Identical under dual numbering | |
|  | | IS 15329 : 2003 | | Platinum and platinum alloys, jewellery/ artefacts - Fineness and marking - Specification | | September, 2019 | | - | | Not Equivalent | |
|  | | IS 15766 (Part 1) : 2007 | | Grading of polished diamonds: Part 1 classification | | March, 2022 | | 1 | | Not Equivalent | |
|  | | IS 15766 (Part 2) : 2007 | | Grading of polished diamonds: Part 2 test methods | | March, 2022 | | 2 | | Not Equivalent | |
|  | | IS 15820 : 2009 | | General requirements for competence of assaying and hallmarking centre | | September, 2019 | | 3 | | Not Equivalent | |
|  | | IS 15892 : 2019 | | Jewellery - Ring-Sizes - Definition, Measurement and Designation ( First Revision ) | | December, 2023 | | - | | Identical under dual numbering | |
|  | | IS 15893 : 2011 | | Jewellery - Gold alloy coatings | | February, 2020 | | - | | Identical under dual numbering | |
|  | | IS 15940 : 2021 | | Jewellery and precious metals Determination of platinum in platinum alloys ICP-OES method using an internal standard element | |  | | - | | Identical under dual numbering | |
|  | | IS 15941 : 2021 | | Jewellery and precious metals Determination of palladium in palladium alloys ICP-OES method using an internal standard element | |  | | - | | Identical under dual numbering | |
|  | | IS 16900 : 2021 | | Jewellery and precious metals Determination of high purity silver Difference method using ICP-OES | |  | | - | | Identical under dual numbering | |
|  | | IS 16901 : 2022 | | Jewellery and precious metals Determination of high purity gold platinum and palladium - Difference method using ICP-OES | |  | | - | | Identical under dual numbering | |
|  | | IS 17278 : 2019 | | Refined Gold and Silver Bars for Good Delivery Ã¢â‚¬â€ Specification | | December, 2023 | | - | | Indigenous | |
|  | | IS 18458 : 2023 | | JEWELLERY AND PRECIOUS METALS - ED-XRF TEST - METHOD OF TEST | |  | | - | | Not Equivalent | |
|  | | IS 1953 : 1973 | | Methods of chemical analysis of silver anodes (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 2112 : 2014 | | Silver and silver alloys, jewellery/ artefacts - Fineness and marking - Specification (Third Revision) | | September, 2019 | | 2 | | Not Equivalent | |
|  | | IS 2113 : 2014 | | Assaying silver in silver and silver alloys - Methods (Third Revision) | | September, 2019 | | 1 | | Not Equivalent | |
|  | | IS 2270 : 1965 | | Methods for assaying of platinum and platinum alloys | | February, 2020 | | - | | Indigenous | |
|  | | IS 2270 : 2024 | | Assaying of Platinum and Platinum Alloys Ã¢â‚¬â€ Methods (First Revision) | |  | | - | | Indigenous | |
|  | | IS 2271 : 1967 | | Recommended method for spectrographic analysis of platinum | | February, 2020 | | - | | Indigenous | |
|  | | IS 2275 : 1984 | | Grades of platinum (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 2279 : 1980 | | Specification for fine silver bar, sheet, wire, granules and token (First Revision) | | September, 2019 | | - | | Indigenous | |
|  | | IS 2767 : 1984 | | Specification for gold thread (Silver Base) (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 2790 : 1999 | | Guidelines for manufacture of 23,22,21,18,14 and 9 carat gold alloys (Second Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS B2790 : 1999 | | Guidelines for Manufacture of 23, 22, 21, 18, 14 and 9 Carat Gold Alloys(Bi-lingual) | | February, 2020 | | - | |  | |
|  | | IS 3088 : 2024 | | Assaying of fine grade palladium -Method (First Revision) | |  | | - | | Indigenous | |
|  | | IS 3095 : 1999 | | Gold solders for use in manufacture of jewellery specification (Second Revision) | | February, 2020 | | 1 | | Not Equivalent | |
|  | | IS 3096 : 1965 | | Specification for fine grade palladium | | February, 2020 | | - | | Indigenous | |
|  | | IS 3111 : 1984 | | Specification for silver thread (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 3112 : 1984 | | Specification for gold and silver embroidery material (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 3571 : 1985 | | Specification for dental gold solders (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 3578 : 1985 | | Specification for dental gold alloy wire (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 3610 : 1985 | | Specification for dental gold foil (First Re Vision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 4134 : 1967 | | Recommended colour classification of rough diamond | | February, 2020 | | - | | Indigenous | |
|  | | IS 4703 : 1968 | | Methods of chemical analysis of silver - Manganese brazing alloys | | February, 2020 | | - | | Indigenous | |
|  | | IS 4704 : 1985 | | Specification for silver-tin dental amalgam alloy (First Revision) | | February, 2020 | | 1 | | Indigenous | |
|  | | IS 4705 : 1985 | | Specification for dental mercury (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 4799 : 1985 | | Specification for dental casting gold alloys, non - Porcelain bonding (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 5954 : 1985 | | Specification for dental white gold alloys (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 6018 : 1993 | | Platinum, platinum rhodium catalyst gauzes - Specification (First Revision) | | March, 2022 | | - | | Indigenous | |
|  | | IS 6019 : 1993 | | Platinum dish - Specification (First Revision) | | September, 2019 | | - | | Indigenous | |
|  | | IS 6170 : 2024 | | Platinum crucible and lid - Specification (First Revision) | |  | | - | | Indigenous | |
|  | | IS 639 : 1982 | | Sbecification for gold leaf (Second Revision) | | September, 2019 | | - | | Indigenous | |
|  | | IS 6683 : 1998 | | Diameters of wires for platinum group metals and their alloys | | September, 2019 | | - | | Indigenous | |
|  | | IS 6882 : 1973 | | Specification for platinum electrodes | | September, 2019 | | - | | Indigenous | |
|  | | IS 6889 : 2000 | | Chemical analysis of silver - Tin dental amalgam alloy - Method (First Revision) | | September, 2019 | | - | | Indigenous | |
|  | | IS 6890 (Part 1) : 1989 | | Chemical analysis of gold alloys dental: Part 1 determination of gold, silver, palladium and platinum (First Revision) | | September, 2019 | | - | | Indigenous | |
|  | | IS 6890 (Part 2) : 1975 | | Methods for chemical analysis of dental gold alloys: Part 2 determination of nickel and zinc | | September, 2019 | | - | | Indigenous | |
|  | | IS 7225 : 1985 | | Specification for dental cobalt - Chromium casting alloy (First Revision) | | February, 2020 | | - | | Indigenous | |
|  | | IS 7255 (Part 1) : 1974 | | Methods of chemical analysis of solders for use in goldware: Part 1 determination of gold, silver and copper | | September, 2019 | | - | | Indigenous | |
|  | | IS 7255 (Part 2) : 1977 | | Methods of chemical analysis of solders for use in goldware: Part 2 determination of cadmium and zinc by polarographic method | | September, 2019 | | - | | Indigenous | |
|  | | IS 7562 : 1974 | | Specification for gold cladding | | September, 2019 | | 1 | | Indigenous | |
|  | | IS 8858 : 1978 | | Method for spectrographic analysis of fine silver ingot | | February, 2020 | | - | | Indigenous | |
|  | | IS 8929 : 2023 | | HIGH PURITY GOLD WIRE FOR ELECTRICAL CONTACTS - SPECIFICATION | |  | | - | | Indigenous | |
|  | | IS 9443 : 1980 | | Guidelines for marking purity of silver on silver articles/ornaments | | September, 2019 | | - | | Indigenous | |
|  | | IS 964 : 2023 | | CHEMICAL ANALYSIS OF SILVER SOLDER - METHODS | |  | | - | | Indigenous | |
|  | | IS 9925 : 2024 | | Determination of Gold and Silver in Gold and Silver Thread and Embroidery Materials - Method (First Revision) | | - | | - | | Indigenous | |

**[ANNEXURE-3](#ANNEXURE2)**

**Status of India in ISO/TC 174 Jewellery - ‘P’ Member**

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| --- | --- | --- | --- |
| **STANDARD AND/OR PROJECT UNDER THEDIRECT RESPONSIBILITY OF ISO/TC 174 SECRETARIAT(20)** | | **STAGE** | **ICS** |
| ISO 5724:2023 | Jewellery and precious metals — Determination of very high purity gold — Difference method using ICP-MS | 60.60 | 39.060 |
| ISO 8653:2016 | Jewellery — Ring-sizes — Definition, measurement and designation | 90.93 | 39.060 |
| ISO 8654:2018 | Jewellery — Colours of gold alloys Definition, range of colours and designation | 60.60 | 39.060 |
| ISO 8654:2018/AMD 1:2019 | Jewellery — Colours of gold alloys — Definition, range of colours and designation — Amendment 1 | 60.60 | 39.060 |
| ISO 9202:2019 | Jewellery and precious metals — Fineness of precious metal alloys | 60.60 | 39.060 |
| ISO 10713:1992 | Jewellery — Gold alloy coatings | 90.92 | 39.060 |
| ISO 11210:2014 | Jewellery — Determination of platinum in platinum jewellery alloys — Gravimetric method after precipitation of diammoniumhexachloroplatinate | 90.92 | 39.060 |
| ISO 11426:2021 | Jewellery and precious metals — Determination of gold — Cupellation method (fire assay) | 60.60 | 39.060 |
| ISO 11427:2014 | Jewellery — Determination of silver in silver jewellery alloys — Volumetric (potentiometric) method using potassium bromide | 90.92 | 39.060 |
| ISO 11490:2015 | Jewellery — Determination of palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime | 90.92 | 39.060 |
| ISO 11494:2019 | Jewellery and precious metals — Determination of platinum in platinum alloys — ICP-OES method using an internal standard element | 60.60 | 39.060 |
| ISO 11495:2019 | Jewellery and precious metals — Determination of palladium in palladium alloys — ICP-OES method using an internal standard element | 60.60 | 39.060 |
| ISO 11596:2021 | Jewellery and precious metals — Sampling of precious metals and precious metal alloys | 60.60 | 39.060 |
| ISO 13756:2015 | Jewellery — Determination of silver in silver jewellery alloys — Volumetric (potentiometric) method using sodium chloride or potassium chloride | 90.92 | 39.060 |
| ISO 15093:2020 | Jewellery and precious metals — Determination of high purity gold, platinum and palladium — Difference method using ICP-OES | 60.60 | 39.060 |
| ISO 15096:2020 | Jewellery and precious metals — Determination of high purity silver — Difference method using ICP-OES | 60.60 | 39.060 |
| ISO 18323:2015 | Jewellery — Consumer confidence in the diamond industry | 90.93 | 39.060 |
| ISO 22764:2020 | Jewellery and precious metals — Fineness of solders used with precious metal jewellery alloys | 60.60 | 39.060 |
| ISO 23345:2021 | Jewellery and precious metals — Non destructive precious metal fineness confirmation by ED-XRF | 60.60 | 19.100  39.060 |
| ISO 24016:2020 | Jewellery and precious metals — Grading polished diamonds — Terminology, classification and test methods | 60.60 | 39.060  01.040.39 |
| ISO 24018:2020 | Jewellery and precious metals — Specifications for 1 kilogram gold bar | 60.60 | 39.060 |