



For BIS Use Only

BUREAU OF INDIAN STANDARDS

METALLURGICAL ENGINEERING DEPARTMENT

MINUTES

| Name of the Committee | No. of Meeting | Day | Date | Time | Venue/Mode |
|-------------------------------------------------------------------------------------------------------|-----------------------|------------|--------------|-------------|-------------------------------------------------------------------------------------------------|
| Ores and Feedstock for Aluminium Industry, its Metals Alloys and products Sectional Committee, MTD 07 | 29 th | Monday | 3 April 2023 | 11:00 AM | Green Room, Manak Bhawan, Bureau of Indian Standards Headquarter, New Delhi (Virtual) |

In Chair: Dr Kali Sanjay

Member Secretary: Shri Ashish Wakle, Sc 'C'

Attendance

| Sl No. | Member Organization | Name | E-Mail |
|---------------|---------------------------------------------------------------------------|-------------------------|--------------------------------|
| 1. | Aluminium Association of India, Bengaluru | Shri Anil Mathew | anil.mathew@adityabirla.com |
| | | Shri Vimal Raj T | t.vimalraj@vednata.co.in |
| 2. | Aluminium Secondary Manufacturers Association, New Delhi | Shri Naveen Pant | naveenpant@jindalaluminium.com |
| 3. | | Shri Mithilesh Kumar | secretary.asma@gmail.com |
| | Shri Anil Agarwal | sheelfacility@gmail.com | |
| 4. | Bharat Aluminium Company Limited, New Delhi | Ms. Anjali Pawar | anjali.pawar@vedanta.co.in |
| | | Shri Jitendra Verma | jitendra.verma@vedanta.co.in |
| 5. | CSIR - National Metallurgical Laboratory, Jamshedpur | Dr. VC Srivastava | vcsrivas@nmlindia.org |
| 6. | Century Metal Recycling Limited, Faridabad | Shri Mohan Agarwal | Mohan.a@cmr.co.in |
| 7. | Directorate General Quality Assurance, New Delhi | Shri Ajay Kumar | cqametichapur-dgqa@nic.in |
| 8. | Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur | Shri Anupam Agnihotri | director@jnarddc.gov.in |
| | | Shri R N Chouhan | rnchouhan@jnarddc.gov.in |



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| 9. | Jindal Aluminium Limited, Bengaluru | Shri P. Devaraj | qa.devaraj@jindalaluminium.com |
| 10. | Material Recycling Association of India (MRAI), Mumbai | Shri Dhawal Shah | dhawal@metcoventures.com |
| | | Shri Jayant Jain | jayant@grmetal.in |
| 11. | Vedanta Limited, Mumbai | Shri Vivek Saxena | vivek.saxena@vedanta.co.in |
| | | Shri Dugeshwar Sahu | dugeshwar.sahu@vedanta.co.in |
| | | Shri Jeya prakash | Jeyaprakash.narayanan@Vedanta.co.in |
| 12. | Hindalco Industries Limited, Mumbai | Shri R K Sur Chaudhury | ranjan.s@adityabirla.com |

Item 0 GENERAL

0.1 Opening Remarks by BIS

Shri Sanjiv Maini, Head (MTD) and Member Secretary MTD 7 extended warm welcome to the members and thanked them for making it convenient to attend the meeting. Head MTD informed the members that the Committee has made lot of effort in discussing, deliberations and drafting of the scrap standard and it was requested to be considerate to the draft and try to finalize the draft for sending it for printing. He Informed all pending issues since 25th sectional committee meeting which were long pending were also taken up as the part of agenda. HMTD also advised the committee to review all pre-2000 standards and decide whether the standard(s) to be revised or withdrawn within 2 years. After that, HMTD informed the Committee about the standardization cells and how it will help in the process of Standard formulation.

0.2 Opening Remarks by the Chairman

Chairperson Dr. Kali Sanjay welcomed the members present in the meeting and appreciated the efforts made by the committee to draft the standard and subsequently this document was put under 2nd Wide circulation it was requested to reach on consensus based on the discussion and try to send the document for printing.

Item 1 CONFIRMATION OF MINUTES OF LAST MEETING

Since no comments have been received, the Committee confirmed the minutes of twenty-eighth meeting of Ores and Feedstock for Aluminum Industry, its Metals Alloys and Products Sectional Committee, MTD 07 circulated vide email dated **06 March 2023**.

Item 2 ACTION TAKEN REPORT

2.1 Decisions Taken by the Committee are Placed Below:

| SI No. | Subject | Decision taken by the Committee in the last meeting | Action Taken | Decision of the committee |
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| 1a | Review of Indian standard formulated on | After discussion and deliberations, the committee agreed to send the following drafts for printing. | IS 4026 , IS 5484 and IS 9997,IS 1285 at publication stage. | The Committee noted the same. |



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| | Aluminium under MTD 7 committee (Panel 1:Primary Products and others) | a) IS 4026 (MTD 07/19563) b) IS 5484 (MTD 07/19559) c) IS9997 (MTD 07/19555) d) IS 1285(MTD 07/19246) | | |
| 1b | | <p>For the panel members lists it was decided that MTD will seek fresh nominations from panel members organizations & update the panel member list accordingly.</p> | <p>Updated Panel member list Panel 1 members list 1. Mr. Butchi Babu, Convenor, AAI 2. Mr Anil Agarwal, Aluminium Secondary Manufacturers Association, New Delhi 3. Mr V Jhunjhunwala, Century Extrusions Limited, Kolkata 4. Mr S Sasikumar, Hindalco Industries limited, Mumbai 5. Dr Anupam Agnihotri, Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur 6. Shri P. Devaraj, Jindal Aluminium Limited, Bengaluru 7. Shri Jay Poddar and Shri Jayant Jain, MRAI 8. Smt. Anshu Mala Shukla, NTH Kolkota 9. Mr Vivek Saxena and Mr. Ram sandipam , Vedanta Limited , Mumbai</p> | <p>The Committee noted the same.</p> <p>Panel 1 was requested to hold an early meeting , within one month, to resolve all the issues pending under panel 1. It was also decided to invite the panel convenor to the committee meeting henceforth.</p> |
| 1c | | <p>The Draft revision on following standards were received AAI: IS 2590, IS 4026, IS 5484, IS 10257, IS 10259, IS 15392, IS 16011 IS 21, IS 617, IS 1254, IS 1285 and IS 9997</p> | <p>A)Wide circulation of IS 10257(MTD 07 (19244)) completed. No Comments received</p> | <p>A)Mr Ranjan Suri Choudhary from Hindalco requested to add additional grade in IS 10257, grade 81400. He was requested by</p> |



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| | | | | committee to send his comment in writing to BIS ,then that comment will be further be put up to Panel 1 for deliberation. |
| | | | B) Wide circulation of IS 1254(MTD 07 (19243) completed . No Comment Received. However based on MTD comments WC document were again reviewed and changes were made in Cl.8.5 | B) Mr Ranjan Choudhary of the committee requested to retain the exact text of corresponding clause 7.5 in present version of 1254:2007. Committee decided that Draft of IS 1254 will again be put up to Panel 1 for deliberation. |
| | | | C) Draft received from Panel IS 10259 and IS 617 | The committee noted the same , the committee provided approval for wide circulation of Draft of IS 10259 and IS 617 for a period of 2 months |
| | | | D) IS 15392, IS 16011,IS 21 Pending with Panel members. | The committee noted the same and requested Panel 1 to expedite. |
| 2a | Review of Indian standard formulated on Aluminium under MTD 7 committee (Panel 1:Wrought Products) | Panel no.2 List Panel on Wrought product: a) Ms Anjali Pawar, BALCO – (Convener) b) Mr. Siddharth Manjrekar ,AAI c)Mr Anil Agarwal, ASMA d) Dr. G.Raja Singh, Defence Research and Development Laboratory, Ministry of Defence, Hyderabad e) Dr Anupam Aghinotri, JNARDC f) Shri Jayant Jain, MRAI g) Smt. Anshu Mala Shukla, NTH Kolkota h) Shri B. Govindan Nair, Shriram Labs | Committee may pl. note. | Committee noted the composition of Panel 2. Panel 2 was requested to hold an early meeting , within one month, to resolve all the issues pending under panel 1. |



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| 2b | | Panel was asked to submit revised draft of IS 733, IS 736, IS 737 keeping in view Mechanical properties wrt to grades in ISO | Panel submitted revised draft for IS 733, IS 736, IS 737 | Shri Devraj from Jindal Aluminium commented on some temper conditions mentioned in IS 733. Committee requested to send his comment to BIS so that comment can be taken up for discussion in Panel no.2. Committee agreed for wide circulation of draft IS 736 and IS 737 for a period of 2 months. |
| 3a | Formulation of New Standards | <ol style="list-style-type: none"> 1. Specification for Aluminium clad stock 2. Specification for Aluminium closure stock 3. Specification for Aluminium composite panel stock 4. Specification for Aluminium fin stock 5. Specification for Aluminium hard alloy sheets and coils 6. Specification for Aluminium hard alloy plate 7. Specification for Aluminium high security registration plate stock 8. Specification for Aluminium lithostock <p>The Committee decided that the draft new standards will be forwarded to the panel dealing with wrought product to study the proposal and give their recommendation whether the standards needs to be formulated on the subject proposed.</p> | No drafts received from Panel 2. The committee may decide. | The committee noted the same and requested Panel 2 to expedite. Panel convenor assured that the meeting of the panel will be convened at the earliest . |
| 3b | | ALUMINIUM ALLOY AK 6: stampings intended for pistons, screw blades, crank cases, rings, discs & covers | Draft received from STANDARDS DEVELOPING ORGANISATIONS (SDOs): Directorate | Committee allotted this subject to Panel 2. Panel 2 was requested to expedite, within one month,the review of |



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| | | | of Standardisation, Ministry of Defence. | this document so that it can be taken up for further processing. |
| 4a | Revision of SP 1 : Comparison of Indian and overseas standards on Aluminium alloys casting | It was also decided by the committee to revised SP 1 and the revised draft will be jointly prepared by panel 1 and Panel 2. | Joint Draft (Panel 1 and Panel 2) of SP 1 not yet received. The committee may decide. | Committee noted the same and requested the Joint Panel (Panel 1 ,2) to expedite. |
| 5a | IS 738 -1994 Aluminium drawn tubes for general engineering purposes | <p>The comments received from M/s Siddhi Group on IS 738 on 22.1.2021 which is as follows:</p> <p>IS 738 -1994 Aluminium drawn tubes for general engineering purposes is a very old standard and there is few ambiguity in the standard. The details are as below:</p> <p>1. In Table 2 – Mechanical Properties of Aluminium Alloy Drawn Tubes, in column 1 Alloy designation, 7th line, designation written is 64438 but it should be 64430. Refer table 1, column 1, line 7; designation written is 64430 which is correct.</p> <p>2. Section 9.1.2 Flattening Test, All alloys specified in this standard can't be tested as per this standard and it will get cracked. Also it is not mentioned under which temper condition this test is to be carried out.</p> <p>3. It may be noted that IS 738 contains a very limited number of alloys whereas at present there are several other alloys, used in India by various important Sectors of Indian Economic. As for example: equivalentents of alloys 5083 & 5086 are not available in IS 738.</p> <p>Over and above - ISO 6363-2012 (Part-1 to Part-6): Wrought</p> | <p>The recommendation of the panel 2 is still awaited from the panel.</p> <p>The committee may decide.</p> | Committee noted the same and requested Panel 2 to provide recommendation at the earliest, within one month. |



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| | | <p>aluminium and aluminium alloys - Cold-drawn rods/bars, tubes and wires - is very well representing all the requirements of the Cold drawn aluminium Tube. It also includes rods/bars and wires.</p> <p>So we request to adopt ISO 6363 – 2012 (Part 1 to Part 6) in place of IS 738 - 1994.</p> <p>In the last meeting held on 22 march 2021, the committee noted the information and after detailed deliberation decided to take up the subject for revision and requested the Panel 2 to submit their recommendation regarding revision of IS 738 by adoption of ISO 6363-2012 (Part-1 to Part-6): Wrought aluminium and aluminium alloys - Cold-drawn rods/bars, tubes and wires to the Committee within three months for comments.</p> <p>The committee requested the Panel 2 to provide the recommendations on priority.</p> | | |
| 6a | Revision of Standards :IS 14712 Wrought Aluminium and its alloy chequered tread sheets for general engineering purposes | <p>The Draft revision has been received from The Panel on the subject.</p> <p>In the last meeting held on 22 march 2022, the committee noted the information and after detailed deliberation decided to take up the subject for revision and requested the Panel 2 to submit the draft revision to the Committee within three months for comments.</p> <p>The committee requested the Panel 2 to provide the recommendations on priority.</p> | <p>The recommendation of the Panel 2 is still awaited.</p> <p>The committee may decide.</p> | Committee noted the same and requested Panel 2 to provide the revised draft at the earliest, within one month. |
| 6b | Revision of Standards | <p>1. IS 734 Specification for wrought aluminium and aluminium alloy forging stock and forgings For General Engineering Purposes Second Revision</p> <p>2. IS 7428 Specification for aluminium alloy extruded bars</p> | Drafts not received from Panel 1 | Committee noted the same and requested Panel 1 to provide the revised draft at the earliest. |

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| | | rods and sections for aircraft purposes Alloy No 24345 | | |
| 6c | Revision of Standards | <p>1. IS 6751 Specification for aluminium alloy castings and strips for bearings</p> <p>2. IS 2067 Specification for wrought aluminium wire for electrical purposes Fourth Revision</p> | Drafts not received from Panel 2 | Committee noted the same and requested Panel 2 to provide the revised draft at the earliest. |
| 6d | Revision of Standards | 1. IS 2066 Coding and classification for non - Ferrous scrap metals and residues | With letter dated 06 March 2023, MRAI has requested to revise IS 2066 :1962 in line with ISRI 2022 | <p>Committee agreed to take up IS 2066 for revision in line with ISRI specification and new Panel be formed for this revision.</p> <p>Committee Agreed to m appoint Dr Agnihotri as Convenor of Panel,subject to his availability. Committee members were requested to send nominations for Panel. Member secretary shall follow up with Dr Agnihotri and other committee member to ensure that the panel is constituted in one month time.</p> |
| 7a | Aluminium and aluminium alloys scrap : Requirements and conditions of delivery | <p>2nd Wide Circulation Completed, Complied comments shared to all committee members with Email dated 03.03.2023</p> <p>Draft was sent for wide circulation for 2nd time for one month up to 21st January 2023.A total of around 1500 comments were received in portal, many of the comments were repetitive in nature. All these comments were sorted and complied clause wise by BIS. Following are the changes made in 2nd wide circulation :</p> <p>1) Word “Processed” is removed from the standard.</p> | | Minutes of discussion on draft of Aluminium and aluminium alloy Scrap mentioned in ANNEX -1 |



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| | | Additional Table 2 is inserted for tolerances. | | |
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ANNEX -1

MINUTES OF DISCUSSION ON DRAFT OF ALUMINUM AND ALUMINUM ALLOY SCRAP

- 1) During the meeting, the BIS apprised the committee that the draft standard was sent for wide circulation for 2nd time for one month up to 21st January 2023. A total of around 1500 comments were received in portal, many of the comments were repetitive in nature. Discussion on the comments received was held during last sectional committee meeting, as some members requested for more time to study the comments, the same was given for all committee members to go through all the comments. Three major changes made in 2nd wide circulation document were highlighted 1st Change : Word “ Processed “ is removed from the standard .2nd Change : Additional Table no. 2 is added for tolerances.,3rd Change : Definition of processed scrap is removed. BIS suggested to have discussion on only that comments which are related to changes made in 2nd WC, so that document can be processed further for printing.
- 2) Representatives from AAI, Vedanta Limited also suggested to focus on only on comments received related to changes made in 2nd Wide circulation document wrt to 1st WC document.
- 3) Mr Mohan Agarwal from Century Metal Recycling Limited requested that all comments received should be discussed during the meeting as the document went for wide circulation for 2nd time and all comments received should be respected and discussed and if any mistake is there in the draft document which was missed in 1st wide circulation should be discussed and should be corrected. He also mentioned that since the scope of the standard has been revised, it has effect on other clauses also and thus needs to be discussed. He also mentioned that if by mistake they have overlooked any point during the earlier draft, the same needs to be corrected at this stage.
- 4) Representatives of Century extrusion, Century recycling, MRAI and ASMA requested for change in definition of non-metallic foreign material and to keep volatile material and moisture content out of purview of definition of non-metallic foreign material .They explained it by giving an example of Aluminum Scrap turning received from Auto industries which will have moisture content generally around 20 percent due machine oil, it will not be able to satisfy the stringent requirements of Table 1. They also pointed that in draft standard at Cl. 4.2 a, it is mentioned that “Volatile material and moisture content may be as agreed between supplier and purchaser and determined according to the method mentioned in 6.2 b)” and in definition of non-metallic foreign material definition in Cl.2.4 moisture and volatile material is included, which in itself contradictory, therefore definition should be amended and volatile and moisture content should be removed. They suggested that volatile material and moisture content should only as agreed between supplier and purchaser. It was also mentioned by them that the grades mentioned in table 1 also



needs to be relooked as many of the scrap generated may have to go to Land fill and this will have a negative impact on our countries circular economy.

5) It was mentioned that the scarp import is mainly done on ISIRI specification, however the same is not reflected in ordering information and suggested that IS 2066 may be revised based on ISIRI classification and referred in ordering clause.

6) It was also mentioned by them that the sampling clause also needs to be relooked as they had a discussion with customs officials and they have informed that the sampling mentioned in the draft standard is not practically feasible in port. It was also mentioned that with this draft we are violating customs regulations. The committee requested him to provide the details of customs regulations which are violated by the standard.

7) Representatives from AAI, Vedanta Limited emphasized that the standard has prepared after due deliberations in previous meeting of which representatives of ASMA, MRAI and Century Extrusion and recycling were also participants and there is no point again having a discussion on the points which were discussed and agreed by the committee in earlier meetings. They also informed the committee that in Grade 6 of table 1, there is no limits mentioned for max. non-metallic foreign material.

8) Committee agreed for revision of IS 2066(Coding and classification of nonferrous residues) in line with ISRI specification (Pl. also see Point 2.1, 6d of table).

9) Mr Anil Mathew from AAI informed the committee they in principle agree to the fact that IS 2066 needs to be revised, but he requested to take up the revision of IS 2066 only after the draft of Aluminum scrap standard is finalized as the panel members for both the specifications will be almost same and it will be difficult to concentrate on both the issues at the same time. He also mentioned that he is agreeable with the point that the standard on Aluminum scrap be finalized and kept and send for printing only after the revision of IS 2066 has been completed ..

10) No consensus could be achieved on addressing any comments even after repetitive request from BIS and Chairman.





11) Based on the points discussed and put forward by the committee members, it was agreed that the discussion on draft of Al scrap in the next committee meeting should be restricted to only the points viz a) Definition of Al and Al Scrap b) Volatile and Moisture content in definition of nonmetallic foreign material c) **Cl.3** ordering information d) **Cl.5** Sampling procedure e) Discussion on Grade 6

Item 3 THE SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE, MTD 6 AND PANEL

3.1 The Committee noted the information given in Item No. **3.1, 3.2, 3.3, 3.4, and 3.5** of the Agenda.

Committee was informed about the members who were not present in last 3 meetings. It was then decided to take follow up individually telephonically and then decide on their membership.

Item 4 COMMENTS ON INDIAN STANDARDS

| SI No. | IS No. | IS Title | Comment submitted by | Decision of the committee |
|--------|---------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | IS 7902 | Aluminium alloy forging stock and forgings (Alloy 24345) for aerospace applications - Specification (First Revision) | Aditya Das  IS 7902 Comment Detail on Standard.1 | Comment is regarding applicability of optional test, committee was of the view as it is optional test, no need for any change is there. |
| 2. | IS 2590 | Specification for primary aluminium ingots for remelting for general engineering purposes (Second Revision) | Shivam Ahuja  IS 2590 Comment Detail on Standard.1 | As the Comment is regarding renaming of grades as per Purity, Committee requested Panel 1 to note the same, as revision IS 2590 is assigned to them. |
| 3. | IS 738 | Wrought aluminium alloys, drawn tube for general engineering purposes - Specification (Third Revision) | L S Mathnikar  IS 738 MAthenikar.pdf  IS 738 MAthenikar 2.pdf | Committee assigned this comment to Panel 2, as comment received from Siddhi group is also pending with them. |

Item 5 REVIEW OF INDIAN STANDARDS

5.1 Committee noted the information given 5.1.1, 5.1.2, 5.1.3, and 5.1.4 in the agenda.

| SI no | Doc No / IS No./ ISO No. | Title | Decision of the committee |
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| 1. | IS 1999 : 1987 | Methods of sampling bauxite (First Revision) | The Committee agreed to take up these 5 standards for revision. |
| 2. | IS 5893 : 1989 | Cryolite for use in aluminium industry for the aluminium industry – Specification (Second Revision) | |



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| 3. | IS 5953 : 1985 | Specification for bauxite for use in the production of alumina for the aluminium industry (First Revision) | Decision about how to proceed will be taken up during next meeting. |
| 4. | IS 3191: 1968 | Methods for sampling of cryolite and aluminium trifluoride | |
| 5. | <u>IS 9592 : 1989</u> | Aluminium trifluoride for use in aluminium industry – Specification | |

Item 6 LIST OF INDIAN STANDARDS

6.1 Committee noted the list of standards presently under MTD 7 given in Annexure III of the Agenda.

Item 7 NEW SUBJECTS FOR STANDARDIZATION

7.1 The Committee noted the information given in point 7.1, 7.2

Decision taken by the committee on the topics for new subjects in Point 2.1 (Point 3a, 3b in Table)

Item 8 LATEST INITIATIVES TAKEN BY BIS:

8.1 The committee noted the information given in point 8.1, 8.2, and 8.3

Item 9 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION:

9.1 The Committee was informed no documents are pending for wide circulation, the committee noted the same.

Item 10 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR FINALIZATION:

| SI No. | Doc No / IS no./ ISO no | Title | Remarks | Decision taken by the committee |
|--------|------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | MTD/07/19243 IS 1254:2007 | CORRUGATED ALUMINIUM SHEET | WC Completed on 29.05.2022, No comments received, Changes introduced on recommendation of BIS, Cl.8.5 Depth and Pitch of corrugation | The committee was informed of Changes proposed by BIS in Cl 8.5 Depth and Pitch of corrugations in which tolerances was mentioned , however Shri Ranjan Choudhary of the committee requested to retain the exact text of corresponding clause 7.5 in present version of 1254:2007. Draft of IS 1254 will again be put up to Panel 1 for scrutiny. |

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| 2. | MTD/07/19244 IS 10257: 1982 | SPECIFICATION FOR ALUMINIUM FOILSTOCK | WC Complete on 29.05.2022. No comments received | Mr Ranjan Suri Choudhary from Hindalco requested the committee to add additional grade in draft IS 10257: grade 81400. He was requested by committee to send his comment in writing to BIS ,then that comment will further be put up to panel 1 for scrutiny. |
| 3. | MTD/07/20075 IS 617: 1994 | Cast aluminium and its alloys - Ingots and castings for general engineering purposes - Specification (Third Revision) Amendment - 4 | Wide Circulation Complete on 12 Aug 2022, 1 editorial comments received. | Committee accorded approval for printing of Amendment no. 4 of IS 617 after making necessary editorial corrections. |
| 4. | MTD/07/20995 IS 5052: 1993 (Identical To: ISO 2107 : 2017) | Aluminium and its alloys - Temper designations Second Revision | Wide Circulation Completed on 20.01.2023. Total 22 comments are received, All are pertaining to Al Scrap not relevant to IS 5052, committee may pl. note. | Committee accorded approval for printing for IS 5052. |
| 5. | MTD/07/20999 IS 7793: 1975 | Specification for aluminium alloys for IC engine pistons First Revision | Wide Circulation Completed on 20.01.2023 Total 18 comments are received, All are pertaining to Al Scrap not relevant to IS 7793, and committee may pl. note. | Committee accorded approval for printing for IS 7793. |
| 6. | MTD/07/21003 IS 1284: 1975 | SPECIFICATION FOR WROUGHT | Wide Circulation Completed on 20.01.2023 | Committee accorded approval for printing for IS 1284. |



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| | | ALUMINIUM ALLOY BOLT AND SCREW STOCK (FOR GENERAL ENGINEERING PURPOSES) | Total 7 comments are received , All are pertaining to Al Scrap not relevant to IS 1284, committee may pl. note. | |
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Item 11 R&D PROJECTS FOR ESTABLISHMENT/REVISION OF INDIAN STANDARDS

11.1 The Committee noted the point **11.1** given in the agenda.

ITEM 12 INTERACTION WITH ISO AND SNAP

12.1 The committee noted the point **12.1, 12.2, 12.3** given in the agenda.

12.2 Committee noted the subjects on SNAP 2022-2027: Aluminum stock, Aluminum hard alloy plates, sheets and coils: Committee was informed that these subjects are already taken up as new subject mentioned in point **2.1** (Point **3a, 3b** in table).

ITEM 13 RECOGNITION OF CONTRIBUTION OF COMMITTEE AND COMMITTEE MEMBERS:

13.1 The Committee noted the guidelines for nomination in point 13.1 and will deliberate on nomination during next committee meeting.

Item 14 DATE AND PLACE FOR THE NEXT MEETING

The committee mutually agreed to tentatively schedule the next meeting on 3rd May 2023.

Meeting ended with vote of thanks.