BUREAU OF INDIAN STANDARDS (Metallurgical Engineering Department)

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Our ref:	Dated:	
MTD9/A/2.21	18-09-2023	

Subject: - 21st Meeting of Ores and Feed Stock for Non-Ferrous Industry, Their Metals/ Alloys and Products (Excluding Aluminum and Copper) Sectional Committee, MTD 9.

To,

The Chairperson and Members of MTD 09 Sectional Committee,

Ores and Feed Stock for Non-Ferrous Industry, Their Metals/ Alloys and Products (Excluding Aluminum and Copper) Sectional Committee, MTD 9.

Dear Sir/Madam,

Please find enclosed the minutes of the **Technical Committee Meeting**, MTD 09 held on 26th June 2023 via online mode through WebEx. Comments if any, confined to the accuracy of recording, may please be mailed to the undersigned. The word file of this document could be downloaded from the link given below:

 $\underline{https://docs.google.com/document/d/1Fflnb0stFlBhO7kZEhgJgZYSrxUPGEqs/edit?usp=sharing&ouid=113130826717363364633\&rtpof=true\&sd=true$

Thanking you,

Yours faithfully

(Saaqib Raahi) Assistant Director/Scientist`B' Member Secretary, MTD-09 E-mail: <u>mtd9@bis.gov.in</u> <u>saaqib@bis.gov.in</u> For BIS use only

BUREAU OF INDIAN STANDARDS

DRAFT MINUTES

21ST MEETING OF ORES AND FEED STOCK FOR NON-FERROUS INDUSTRY, THEIR METALS/ ALLOYS AND PRODUCTS (EXCLUDING ALUMINUM AND COPPER) SECTIONAL COMMITTEE, MTD 9

MEETING DATE: 26th June 2023, (Monday)

VENUE: Webex, VC Meeting

Meeting Chairperson: Shri P Meena Meeting Interim Chairperson: Dr. Abhilash

Member Secretary: Mr. Saaqib Raahi

Members Present:

SL No.	Organization	Member	Member type	Email	Phone
1.	CSIR - National Metallurgical Laboratory, Jamshedpur	Dr. Abhilash	Interim Chairperson (21 st Meeting) & Principal Member	ABHILASH@NMLINDIA.O RG	9431962767
2.	Arya Alloys Private Limited, New Delhi	Amrendra K Jha	Principal Member	purchase@aryaalloys.com	9318431011
3.	Bhabha Atomic Research Centre, Mumbai	Shri Rajak Syed	Young Professional	rajak@barc.gov.in	
4.	Bhabha Atomic Research Centre, Mumbai	Dr. Bhaskar Paul	Alternate Member	bhaskarpaul.barc22@gmail.co m	
5.	CSIR - Central Electrochemical Research Institute, Karaikudi	Dr. Jayakumar	Alternate Member	jayam@cecri.res.in	9445835070
6.	CSIR - National Metallurgical Laboratory, Jamshedpur	Dr. Pratima Meshram	Alternate Member	PRATIMA@NMLINDIA.OR G	
7.	Directorate General of Quality Assurance, Ministry of Defence, Ichapur	Shri A. K. Verma	Principal Member	cqametichapur-dgqa@nic.in	9949416181

8.	Directorate General of Quality Assurance, Ministry of Defence, Ichapur	Shri Kartikey Sharma	Alternate Member	cqametichapur-dgqa@nic.in	9424347398
9.				G.PRAHALATHAN@EVER	, 12 10 11070
	Eveready Industries India Limited, Kolkata	Shri G. Prahalathan	Principal Member	EADY.CO.IN	9560340656
10.	Hindustan Zinc Limited, Kolkata	Shri M. Nambi	Principal Member	M.NAMBI@VEDANTA.CO.I N	8003093592
11.	Indian Lead Zinc Development Association, New				0000000000
	Delhi	Shri K. Sridhar	Principal Member	ILZDA.INFO@GMAIL.COM	9873058907
12.	Indian Rare Earths Limited, Mumbai	Dr B. R. Mishra	Alternate Member	brmishra@irel.co.in	9437076734
13.	Mishra Dhatu Nigam Limited, Hyderabad	Shri Vamsi Krishna Parimi	Young Professional	parimi.vamsikrishna@midhani -india.in	9493152831
14.	National Mineral Development Corporation, Hyderabad	Shri G.Venkateswara Rao	Principal Member	gvrao@nmdc.co.in	9490759605
15.		Shri Suhas D.	1		
	National Test House, Kolkata	Pingale	Alternate Member	suhas.pingle@nic.in	8425955446
16.	Nile Limited, Hyderabad	Shri KHK Srinivas	Principal Member	khk@nilelimited.com	9866529911
17.	Nuclear Fuel Complex, Hyderabad	Shri Vijay Kaushik	Principal Member	kaushik@nfc.gov.in	
18.	Power Grid Corporation of India, Gurugram	Dr. Satish Kumar	Alternate Member	satishshekhawat@powergrid.i n	9599106825
19.	Southern Metals & Alloys Private Limited, Mumbai	Shri Vivek Noronha	Principal Member	info@southernmetals.in	9821020276
20.	The Tinplate Company of India Limited, Jamshedpur	Dr. Sourajyoti Dey	Principal Member	sourajyoti.dey@tatatinplate.co m	9431752105
21.	The Tinplate Company of India Limited, Jamshedpur	Shri Subrata Sadhu	Young Professional	subrata.sadhu@tatatinplate.co m	9905904410

Invitee:

Sl No.	Name of the Organization	Name of the Member	Email ID of the Member
1	WDRA (Warehousing Development and Regulatory Authority)	Shri Mukesh Sinha	mukeshsinha@hotmail.com

ITEM 0 GENERAL

As it was intimated by DGQA vide email dated 12 May 2023 and 04 June 2023, that due to the superannuation of Shri P. Meena on 30th June 2023, he won't be able to attend future programs of BIS, the members of the MTD 09 Technical committee unanimously nominated Dr. Abhilash of M/s NML as the Interim Chairperson of the Committee for this 21st Technical committee meeting.

0.1 Inaugural address by Head of Metallurgical Engineering Department

Head MTD, Shri Sanjiv Maini welcomed all the members and Interim Chairperson Dr. Abhilash to this 21th meeting of MTD 09 Technical Committee, Sir requested the committee to conduct the meetings as far as possible, once in each quarter so that we can have at least 3 meetings in a year to easily review all the pre 2000 standards in next 3 years. Also, sir mentioned about increasing the outreach of BIS standard by conducting atleast one of the meeting via physical mode in any technical institutes like NITs, IITs, R&D Institutes where half day meeting and half day seminar regarding basics and latest development in the subject dealt by this committee will be discussed so that younger generation can also participate and comes to know how the standards are being formulated and functions of BIS. Further, sir has requested the committee to make annual plan for revising the standard which is under revision that is planning and fixing the timeline of P draft, WC of draft and finalizing of the revised draft. Sir also mentioned that all the standards which are taken up for revision should be taken as action research project which should be a kind of literature survey or imperial data survey or small R&D project also the expenses incurred of which is fully funded by BIS. Sir mentioned that if any member wants to propose any standard to ISO, BIS will take care of all the expenses incur. Sir requested the committee to take necessary decision on the withdrawal of the organizations not actively participate in the committee meeting.

0.2 Opening remarks by the Chairman

Dr. Abhilash, Interim Chairperson of the meeting, MTD-9 welcomed the members of the Committee to the 20th Meeting of Ores and Feed Stock for Non-Ferrous Industry, their Metals/ Alloys and Products (Excluding Aluminum and Copper) Sectional Committee, MTD09. During his address, he thanked Head MTD Shri Sanjiv Maini sir and enlightened the point raised by him about increasing the frequency of meetings so that a greater number of issues can be addressed. Further he requested all the members to take active participation in the activities of the Committee by contributing their experience and knowledge in preparing the Indian Standards that are at par with the International Standards for the benefit of all the stakeholders of the standards of the Committee. Further sir also requested members about making the plan of the date of P Draft, WC and finalizing of the revised draft of the standard under revision which should be taken as a research project. Sir, also requested the members to actively participate in the ISO standard so formulated should have content as per our requirement.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 Since, there were no comments received on the minutes of 20th Meeting of Ores and Feed Stock for Non-Ferrous Industry, their Metals/ Alloys and Products (Excluding Aluminum and Copper) Sectional Committee, MTD 9 held on 16th September 2022 via WebEx, the Committee confirmed the minutes circulated vide letter No. MTD-9/A-2.20 dated 20-12-2022.

Item 2 SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE, MTD 9

2.1 The committee has noted the information given in Item 2.1 to 2.4 of the Agenda of the meeting.

2.2 The Committee has noted the composition of MTD-9 given at Item 2.5 and Annexure-1 of the Agenda of the meeting and has reviewed the same. The committee requested member secretary to send the letters requesting the organizations which have been continuously absent in last three meetings for their active participation. In case no reply is received, the decision regarding the withdrawal of these organization will be discussed in the next committee meeting and replace them with new alternate organizations.

The committee further decided to Co-opt M/s Amara Raja Batteries, Andhra Pradesh and M/s Pheonix Industries(MSME) into the MTD 09 Technical Committee and requested Shri K. Sridhar of M/s ILZDA to give the contact details of the competent authority for getting the nominations to the members secretary.

2.3 The committee while deliberating on the item no 2.6 on panel composition decided as follows:

A. PANEL-1 FOR LEAD AND LEAD ALLOYS (BOTH PRIMARY AND SECONDARY)

- 1. Shri K Sridhar of M/s ILZDA (Panel convener)
- 2. Shri KHK Srinivas, of M/s NILE lead Ltd.
- 3. Dr. Sagar Sengupta, of M/s Exide Industries Ltd
- 4. Shri Amrendra Jha of M/s Arya Alloys
- 5. Shri M. Nambi of M/s HZL
- 6. Gravitas India Limited, Jaipur(the details of the member will be given by Shri K Sridhar)

The committee decided to induct Jain Metal Group, Chennai, SILMA (South Indian Lead Manufacturers Association), Coimbatore, HMS Metal Corporation, Thane. Pilot Industries, Rajasthan, Coslight India Telecom Pvt. Ltd, Damandri, Una, Himachal Pradesh and MCX, Mumbai into the panel-1. The committee requested Shri K Sridhar Ji to provide the contact details of the relevant person to be contacted from these Industries to the member secretary to get the nominations. The committee further requested the other members of the panel to suggest users of lead and lead alloys to induct them into the panel in order to have a diverse view from the user side also.

B. PANEL-2 FOR ZINC AND ZINC ALLOY (BOTH PRIMARY AND SECONDARY) INGOTS AND THEIR PRODUCTS (EXCLUDING DIE CASTINGS ALLOY INGOTS AND DIE CASTINGS)

- 1. Shri M Nambi of M/s HZL (Panel Convener),
- 2. Dr Rahul Sharma of M/s IZA and
- 3. Shri K Sridhar of M/s ILZDA
- 4. Shri Vivek Noronha, of M/s Southern Metals
- 5. Shri Neeraj Kedia of M/s CHAKRADHAR CHEMICALS PVT LTD, Muzaffarnagar (UP)
- 6. Shri Anirudh Jhunjhunwala of M/s J G CHEMICALS PVT LTD, Kolkata,
- 7. Shri Vishal Kothari(Principal member) and Shri Nilesh Patel (Alternate member) of M/s Khosla Engineering.

- 8. Shri Satish Tailor of M/s Metallizing equipment. Co. pvt. Ltd.
- 9. Shri Randhir Rathaur(principal member) and Dr Rahul Goyal (Alternate member)M/s Madhav KRG Group India.

The committee decided to induct the members from Sl No. 8 to Sl No. 9 in to the panel who were invited as an invitee in the panel meetings and further decided to Merge Panel 2 and Panel 4 under a single Panel with a scope dealing with all the aspects of Zinc and Zinc alloys (both primary and secondary) and their products (excluding the die casting alloy ingots and die castings).

C. PANEL-3 FOR DIE CASTINGS

- 1. Dr Rahul Sharma of M/s IZA(Panel Convener) and
- 2. Shri K Sridhar of M/s ILZDA
- 3. Shri Sandeep Tandon of M/s DST Industries Ltd, Haryana.
- 4. Shri M Nambi of M/s HZL

The committee while deliberating on the composition of Panel 3 opined that the view of the small manufacturers and the user industry should be there and requested Shri M. Nambi of M/s HZL, Udaipur & Shri K Sridhar of M/s ILZDA to suggest the manufacturer of alloy ingots and die castings and user organizations/Industries relevant to die castings and communicate the details of the relevant persons from these industries to be contacted to the member secretary in order get the nominations and getting them on board in the panel meetings.

D. PANEL-5 FOR REVISION OF IS 11900 & IS 13351

- 1. Mr. Tapan Bandyopadhyay of M/s Surya Roshni, Madhyapradesh
- 2. Mr. Nandan Pandya from M/s Signify Innovations India Limited
- 3. Smt. Ashmita, MIDHANI
- 4. Dr. Abhilash (Convener), NML

The committee decided to continue with the existing nominations in case of Panel 5 and broadened its scope to cover the revision of IS 13351 as the subject is also related to the tungsten wires and panel has already given recommendations for revision of IS 13351.

2.3.1 The committee while deliberating over the representation of solid solder wire and Flux cored solder wire manufacturers requested Shri Vivek Noronha Jee of M/s Southern Metals and Shri Vishal Kothari Jee of M/s Khosla Engineering to provide the details of the manufacturers and users to induct them into the new panel for solders for revising IS 1921 and IS 11516.

2.4 The committee noted the information given in Item 2.7 and 2.8 of the agenda and after detailed deliberations decided as follows with respect to the organizations co-opted in previous meetings and

Sl.	Name	of	the	Organization/	Decision of the committee
No.	persona	ıl cap	pacity		

1	Gravita India Ltd, Jaipur	The committee requested Shri K Sridhar to
1	Gravita filcita Etd., Jaipti	give the contact details of the relevant person to
		be contacted to the member secretary in order to
		-
2	Delevis Delevis Lineited	get the nominations from the organization.
2	Rubamin Private Limited,	DO
2	Vadodara	The second the second of the Color to the Color
3	Hindustan Tin Works Ltd., New	The committee requested Shri Subrata Sadhu
	Delhi	give the contact details of the relevant person to
		be contacted to the member secretary in order to
		get the nominations from the organization.
4	M/s Surya Roshni Limited (Steel	The committee requested Shri M Nambi to
	Pipes Division),	give the contact details of the relevant person to
		be contacted to the member secretary in order to
		get the nominations from the organization.
5	DMRL, Hyderabad.	The committee requested Dr. Bhaskar Paul
		and DR ABHILASH to give the contact details
		of the member associated.
6	M/s Heavy Alloy Penetrator Project	DO
	(Ordnance Factory Board),	
	Tiruchirappalli	
7	Multi Commodity Exchange ,	The committee after deliberation decided to
	Mumbai India	induct them into the panel 1 and panel 2 rather
		than in the committee and decided to withdraw
		their name from the main committee as being
		only the exchange platform for trading of
		commodities.
8	M/s Minda Corporation Ltd	The committee decided to withdraw them from
		the committee as the members were not
		responding to the multiple co-option requests
		from BIS.
9	M/s R.S Infra Projects Pvt Ltd	The committee decided to withdraw them from
	ALTER	the committee as the members were not
		responding to the multiple co-option requests
		from BIS and also requested Shri M Nambi &
		Shri K Sridhar to suggest alternate galvanizers
		to onboard them into the technical committee.
10	National High way Authority of	The committee decided to withdraw them from
	India Limited	the committee as the members were not

		responding to the multiple co-option requests from BIS.
11	M/s Centre for Military Airworthiness and Certification (CEMILAC), Ministry of Defence,	The committee decided to withdraw them from the committee as the members were not responding to the multiple co-option requests
12	Bangalore AERB, Mumbai.	from BIS. The committee decided to withdraw them from
		the committee as the members were not responding to the multiple co-option requests from BIS.
13	M/s Hindustan Aeronautical Limited, Bengaluru.	The committee decided to withdraw them from the committee as the members were not responding to the multiple co-option requests from BIS

2.5 The committee noted the information given in Item 2.9 of the agenda and after detailed deliberations requested the member secretary to send the letters again requesting them either to participate actively or to send fresh nominations. In case no reply is received, the decision regarding the withdrawal of these organization will be discussed in the next committee meeting.

Sl. No	Name of the Organization	
1.	RDSO (M & C Directorate), Lucknow	
2.	Ministry of Mines, New Delhi	
3.	Bharat Electronics Ltd, Bangalore	

2.6 The committee after detailed deliberation on the

Item 3 ACTION TAKEN REPORT

3.1 The committee considered the summary of Actions taken as given in the agenda and decided as follows:

Sl. No.	Subject	Decision of the Committee during previous meetings	Actions taken	Decision of the committee during this meeting
1.	Lead and Lead Alloy Wire – Specification (New Specification)	The committee after detailed deliberation requested Shri Arun Gupta of M/s Saru Smelting to submit the revised draft latest by 31 st December 2022 and advised the member secretary that on receipt of the working draft, it should be circulated among the committee members for 3 weeks' time.	The draft is awaited from Shri Arun Gupta of M/s Saru Smelting. It is being proposed to drop the subject since it is going on from a long time in the committee.	The committee noted the information given in Item No 3, SI No 1 and SI No 2 of the agenda and after deliberation decided to drop this document, as the proposer himself is no

				longer interested in contributing further for the formulation of the standard.
2.	New Standard on lead free alloy (High temperature alloy) solder	The committee noted the information given in Item 3 and SI No. 2 of the agenda and requested Shri Arun Gupta of M/s Saru Smelting to submit the revised draft latest by 31st December 2022 and advised the member secretary that on receipt of the working draft, it would be circulated among the committee members for 3 weeks' time.	The draft is awaited from Shri Arun Gupta of M/s Saru Smelting. It is being proposed to drop the subject since it is going on from a long time in the committee.	DO
3.	IS 713: 1981 Specification for zinc base alloy ingots for die casting (Second Revision)	The committee in its 19th meeting requested Shri M. Nambi of M/s HZL to review the standard and submit the review report to the committee within 1 month along with the draft standard (in case revision is being proposed) to the committee. On receipt of the recommendation, the same has to be circulated to the committee members for 3 Weeks' time for their views/comments Shri M. Nambi of M/s HZL was requested vide multiple emails to submit the report. However recommendations are awaited. It is to inform to the committee that the following International standard exist on the subject matter: ISO 301 BSEN 1774 GB/T 8738 JIS H 2201 ASTM B240 All of these standard does not specify not only die casting but for general Foundry purposed. For instance say ISO 301, it specifies the designations, chemical compositions, marking and other requirements for zinc alloys, in ingots (or liquid form), produced for foundry purposes. Another example is ASTM B240-17 , Standard Specification For Zinc And Zinc-Aluminum (ZA) Alloys In Ingot Form For Foundry And Die Castings The committee in its previous meeting requested the panel- 2 for Primary Zinc & Zinc Alloys consisting of Shri M Nambi (Panel Convener), Dr Rahul Sharma and Shri K Sridhar to review the standard and also take into consideration the information shared by BIS Secretariat and submit the recommendations to the committee till 31 st December 2022. On receipt of the recommendation, the same has to be circulated to the committee members for 3	Combined Panel meeting of Panel2 and Panel 4: The panel2 and Panel 4 in its 1 st combined meeting of MTD Panel 2 and Panel 4 held on 20 th March 2023, after detailed deliberation recommended to adopt ISO 301 which specifies for all zinc alloy ingots general Foundry purposes and not only for die castings as in the case of IS 713. The Panels further recommended to adopt ISO 20081 sampling of zinc and zinc alloys which is indispensable reference in the standard ISO 301. The minutes of the combined panel meeting is given below: 10098_06042023172 414_0.docx However, the panel 3 on die casting during its 1 st meeting held on 8 th May 2023, recommended to modify the ISO 301 and ISO 15201 and while keeping the grades as it is as of ISO and further it was also recommended to incorporate (HF)Zinc-Aluminum Alloy alloys as an informative Annex with its required chemical composition and properties with a note mentioning that "these alloys does not form an integrate part of the standard and these alloys are not much widely used and currently under research. The grades given and the properties defined are informative in nature which will later	The committee noted the information given in Item No 3, SI No 3 and SI No 4 of the agenda and after deliberation requested Panel 3 (Shi Sandeep Tandon, Director, DST Tech Private Limited) to submit the both the revised drafts of IS 713 and IS 742 by modifying ISO 301 and ISO 15201 respectively to Member Secretary within 1 months' time period. .Also the committee requested Shri M Nambi of M/s HZL & Shri K. Sridhar to suggest members related to die castings (Manufacturers Of Die Cating Alloy Ingots, Die Castings) to get them onboard in the panel to also have their point of view in the revision of this standard. The drafts so finalized in the panel meeting shall be sent for WC for a period of two month. In case no comments received are editorial in nature send it for printing.

		Weeks' time for their views/comments. In case no comments are received, the same would be sent for Wide circulation for a period of one month	form the part of standard when its considerable commercial use and research is established etc. The panel will submit the draft before 26-june-2023 and will be further discussed in the next panel meeting. 3rd Panel meeting of Panel 2: The panel 2 in its 3 rd meeting held on 13 June 2023, after detailed deliberation on the recommendations of Panel-3 requested to MS that on receipt of the drafts from panel 3, a combined panel meeting of panel 2, and panel 3 may be held to finalize the IS 713 and IS 742 for	
4.	IS 742: 1981 Specification for zinc base alloy die castings (Second Revision)	The committee in its previous meeting after detailed deliberations decided to constitute the panel-3 consisting of : a) DST Industries (Details of point of contact to be given by Dr. Rahul Sharma) b) Shri M. Nambi c) Dr. Rahul Sharma (Panel Convener) The committee requested the panel to review the standard	circulation among the committee members. MINUTES 2ND PANEL MEETING PAN 1 st Panel meeting of Panel-3:	
		and submit their recommendations/revised draft to the committee till 31 st December 2022.	ISO 15201 respectively of hiddly the ISO as per our requirements. Also it was recommended to incorporate (HF) Zinc-Aluminum Alloy alloys as an informative Annex with its required chemical composition and properties with a note mentioning that "these alloys does not form an integrate part of the standard and these alloys are not much widely used and currently under research. The grades given and the properties defined are informative in nature which will later form the part of standard when its considerable commercial use and research is established etc".The draft so formulated shall be discussed further in the next panel meeting. The	DO

minutes of the panel meeting are
enclosed below:
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• Also it is recommended to include
more members in the panel related to
alloy ingots and die castings. It was
requested to Shri Nambi Ji to provide
the name and details of the important
stakeholder and get them on board in
the next panel meeting.
• It was also requested to the member
secretary to provide the word
documents of ISO 15201 and ISO 301
so that the same can be edited.
• The panel further discussed
regarding the formulation of standard
in the field of Continuous
Galvanizing Grade (CGG) Zinc
Alloys for Hot-Dip Galvanizing and it
was put forward that following are the
important stakeholders in the
formulation of the standard:
a) Tata steel
b) JSW
c) POSCO
d) SAIL
The standards for GALAFAN, ZINC-AL-
Mg, and Zinc-Al alloys for hot dip
coatings may also be taken into the
consideration at later stages.
Action taken:
Accordingly the word documents of ISO
15201 and ISO 301 was shared with the
panel members vide mail dated 06- June -
2023 to draft/modify the standards and
· ·
submit it to member secretary before 26-
june 2023. Shi Sandeep Tandon, Director, DST Tash Privata Limitad vid armil datad
DST Tech Private Limited vid email dated
07-June 2023 assured to give both the
drafts of ISO 301 and ISO 15201 by 22-
June 2023. However the drafts are
awaited.
Final status/recommendations of Panel:

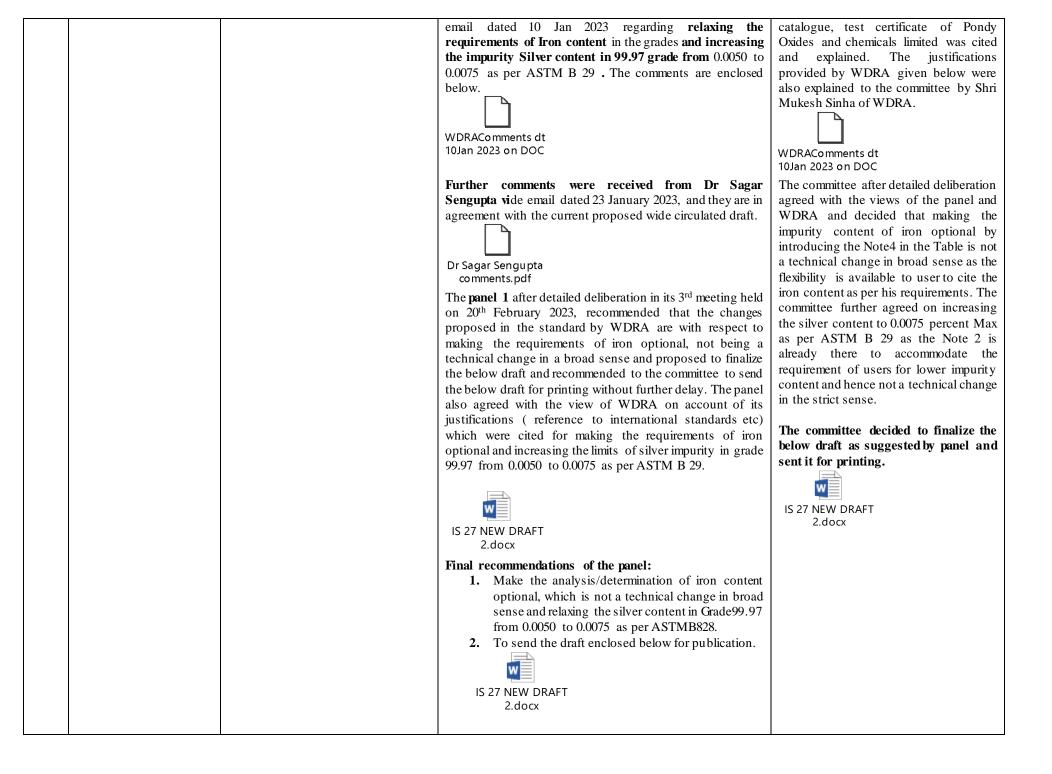
5.	IS 1654 : 1992 Lead - Antimony alloys - Specification (Third Revision)	 The committee in its previous meeting decided to reconstitute the panel-1 consisting of: Shri K Sridhar, of M/s ILZDA (Panel convener) Shri KHK Srinivas, of M/s NILE lead Ltd. Shri Amrendra Jha of M/s Arya Alloys Shri M. Nambi of M/s HZL Gravitas India Ltd. Jaipur The committee requested the panel to review the standard and submit their recommendation to the committee till 31st December 2022. 	 The panel recommended to modify ISO 301 and ISO 15201 and submit the modified drafts by 26 June 2023. The drafts are awaited The recommendations are awaited. It is being proposed to archive the standard and take them up for revision at the later stage. 	The committee noted the information given in Item No 3, SI No 5 of the agenda and after deliberation decided to archive the standard and take up for revision at the later stage with proper representation of experts/members in the panel-1.
6.	Revision of IS 2604 : 1988 Specification for lead anodes for electroplating (Second Revision)	The committee in its previous meeting requested Dr. Jayakumar of M/s CECRI to review the standard and submit their recommendation till 31 st December 2022 whether to revise/withdraw the standard.	Dr. Jayakumar was requested vide email dated 23-December-2022 to submit their recommendations and a reminder for the same was sent on 13 March 2023. email 13march.pdf ReGentle reminder review of IS 2604 an The revised standards and the justification of the changes of IS 2602 and IS 2604 were received vide email dated 13-April- 2023. IS 2604 LEAD BIS Commenting ANODES - Dr M JayaTemplate - IS 2604 LI IS 2602 Cadmium BIS Commenting anodes - Dr M JayaKTemplate - IS 2602 C However certain comments were raised by BIS and communicated to Dr. Jayakumar vide email dated 15-May-2023 for clarification. However, the reply is awaited. The comments are given in the draft itself enclosed below	The committee noted the information given in Item No 3, SI No 6 and SI No7 of the agenda and after deliberation requested Dr. Jayakumar of M/s CECRI to submit the revised draft to the Member secretary within 15 days. Further the committee requested Member secretary that on the receipt of the revised draft send it for WC for a period of two month. In case no comments received/comments received are editorial in nature send it for printing.

			IS 2602 Cadmium anodes - Dr M Jayak	
7.	Revision of IS 2602 : 1989Cadmiumanodesforelectroplatingspecification(First Revision)	The committee in its previous meeting requested Dr. Jayakumar of M/s CECRI to review the standard and submit their recommendation till 31 st December 2022 whether to revise/withdraw the standard.	dodo	DO
8.	Review of IS 8439 : 1977 Methods for sampling of lead and lead alloys	The committee in its previous meeting decided to take up the review of this standard in JULY 2023 - SEPTEMBER 2023 quarter.	It is being proposed to allocate the standard to Panel-1 or form a new panel for reviewing the standard and give their recommendations on whether to revise/editorially revise/withdraw the standard. It is further to inform to the committee that for sampling lead and lead alloys EN 12402:1999 exists as an International standard	The committee noted the information given in Item No 3, Sl No 8 of the agenda and after deliberation requested panel-1 to review the standard thoroughly and suggest/recommend whether to revise/archive/ reaffirm the standard. Further the committee requested the members to suggest the details of the users of lead to induct them into the panel-1 to have fruitful discussions.

Item 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION

4.1 The committee after detailed deliberation on the draft standards/amendments for finalization, decided as follows:

Sl	Draft Indian Standard /	Decision of the Committee in its	Actions Taken	Decision of the committee during this
No.	Amendment	previous meeting		meeting.
1.	Revision of IS 27 Pig	The committee after detailed	The draft enclosed below was sent for wide circulation for a	The committee noted the information
	Lead specifications	deliberation decided to send the draft	period of one month on 15- DEC-2022 inviting comments	given in Item No 4, Sl No 1 of the
	(Panel 1)	enclosed at Appendix 1 of the minutes	till 15-Jan-2023	agenda. During the meeting Shri Mukesh
		of previous meeting for Wide	w	Sinha of WDRA explained to the
		Circulation for 1 month. In case no		committee about making the requirement
		comments are received/comments	IS 27 Final Wc	of iron optional and relaxing the impurity
		received are editorial in nature on the	without assistance.c	content of silver to 0.0075 as per ASTM
		wide circulated draft,, the same would		B 29. It was proposed to the committee
		be sent for printing with the	w	that the requirement of iron is not
		permission of the chair of MTD9	IS 27 Final Wc	mentioned in BSEN 12659:1999 and also
		Technical committee.	without assistance.c	the examples of Kenya power
				specification for lead acid motor vehicle
			Comments were received from WDRA (Warehouse	batteries, Hindustan zinc product
			Development Regulatory authority) given below vide	



2.	Revision of IS 2782 (Primary Nickel specification) MID/09/20249	The committee in its previous meeting after detailed deliberation decided to send the draft enclosed at Appendix 2 of the minutes of previous meeting for Wide Circulation for 1 month. In case no comments are received/comments received are editorial in nature on the wide circulated draft, the same would be sent for printing with the permission of the chair of MTD9 Technical committee.	Accordingly, the draft enclosed below was sent in Wide Circulation on 16-12-2022 inviting comments from public till 16 January 2023. It is now being proposed to finalize the draft and send the same for printing. WCMTD3220249_15 122022_2.pdf	The committee noted the information given in Item No 4, Sl No 2 of the agenda. Further as no comments were received till the last date for comments during wide circulation, the committee after deliberation decided to finalize the below wide circulated draft and sent it for printing. WCMTD3220249_15 122022_2.pdf
3.	Revision of IS 2605 Specification for zinc anodes for electroplating MTD/09/20234	The committee in its previous meeting after detailed deliberation decided to send the draft enclosed at Appendix 3 of the minutes of previous meeting for Wide Circulation for 1 month. In case no comments are received/comments received are editorial in nature, the same would be sent for printing with the permission of the chair of MTD9 Technical committee.	Accordingly, the draft enclosed below was sent in Wide Circulation on 19-12-2022 inviting comments from public till 18 January 2023. It is now being proposed to finalize the draft and send the same for printing.	The committee noted the information given in Item No 4, Sl No 3 of the agenda. Further as no comments were received till the last date for comments during wide circulation, the committee after deliberation decided to finalize the below wide circulated draft and sent it for printing.
4.	Revision of IS 2258 Specification for rolled zinc plate sheet and strip MTD/09/20250	The committee in its previous meeting after detailed deliberation decided to send the draft enclosed at Appendix 4 of the minutes of previous meeting for Wide Circulation for 1 month. In case no comments are received/comments received are editorial in nature on the wide circulated draft,, the same would be sent for printing with the permission of the chair of MTD9 Technical committee	Accordingly, the draft enclosed below was sent in Wide Circulation on 16-12-2022 inviting comments from public till 17 January 2023. Since no comments were received on the wide circulated document bearing Document No.MID 09 (20250), it is now being proposed to finalize the draft and send the same for printing WCMTD3220250_16 122022_1.pdf	The committee noted the information given in Item No 4, SI No 4 of the agenda. Further as no comments were received till the last date for comments during wide circulation, the committee after deliberation decided to finalize the below wide circulated draft and sent it for printing. WCMTD3220250_16 122022_1.pdf
6.	IS 1655:1991 Metallic materials - Zinc alloys - Code of practice for manufacture of pressure die castings (Second Revision)	The committee in its previous meeting decided to allocate the standard to Member secretary and further revise the standard by doing the editorial changes in the standard and send the same for P circulation for a period of one month. In case no comments are	Accordingly, the draft enclosed below was sent for circulation among the members on 17-10-2022 and no comments were received. 70_8079_230324113 906_ARP_Report.doc	As the committee had already decided in its 20th meeting to revise the standard and was due for review in March 2023 this year, the committee post facto approved the decision to reaffirm and revise the standard.

	received, the same would be sent in wide circulation for a period of one month. In case no comments are received /comments received are editorial in nature, the same would be sent for printing with the permission of Chairperson of MTD 9 TC.	 Since, no comments were received on the circulated document, the draft enclosed below was sent in Wide circulation for a period of one month on 23-12-2022, inviting comments till 24-01-2023. WCMTD3221560_22 122022_1(1).pdf Since no comments were received on wide circulated document bearing document No. MITD 09 (21560), it is being proposed to finalize the draft and send the same for printing Further Actions Taken by Member Secretary which requires Post Facto approval: The committee had already decided in its 20th meeting to revise the standard by doing the editorial/cosmetic changes only. However, since the standard has become due for reaffirmation, on March 2023, the approval for amending the decision from mere revision to reaffirm and revise was sent to members on 14 March 2023 giving them time till 18 March 2023. However no comments were received and it was presumed their approval for the same and the decision was amended to a reaffirm and revise on the BIS Portal. 	The committee noted the information given in Item No 4, SI No 5 of the agenda. Further as no comments were received till the last date for comments during wide circulation, the committee after deliberation decided to finalize the below wide circulated draft and sent it for printing. WCMTD3221560_22 122022_1(1).pdf
IS 13923 : 1993 Lead seal – Specification MTD 09 (20799)	The committee in its previous meeting decided to allocate the standard to member secretary and further decided to revise the standard by doing the editorial changes in the standard and send the same for P circulation for a period of one month. In case no comments are received/ comments received are editorial in nature, the same would be sent in wide circulation for a period of one month. The committee further decided that in case no comments are received/ comments received are editorial in nature on the wide circulated, the same would be sent in printing with the permission of the Chairperson of MTD9 TC.	As decided by the committee, the draft enclosed below was sent in P Circulation on 17-10-2022 for 21 days, inviting comments from members till 07-11-2022. PMTD3220799_1710 2022_1(2).pdf Since no comments were received on the P-Circulated draft bearing document No. MID 09 (20799), the draft enclosed below was sent for wide circulation on 16-12- 2022, inviting comments from public domain till 17-01- 2023. WCMTD3220799_16 122022_2(1).pdf Since no comments were received on the wide circulated draft bearing document No. MID 09 (20799), it is being proposed to finalize the same and send it for printing. Further Actions Taken by Member Secretary which requires Post Facto approval:	As the committee had already decided in its 20th meeting to revise the standard and was due for review in March 2023 this year, the committee post facto approved the decision to reaffirm and revise the standard. The committee noted the information given in Item No 4, SI No 6 of the agenda. Further as no comments were received till the last date for committee after deliberation decided to finalize the below wide circulated draft and sent it for printing. WCMTD3220799_16 122022_2(1).pdf

			The committee had already decided in its 20th meeting to revise the standard by doing the editorial/cosmetic changes only. However, since the standard has become due for reaffirmation, on March 2023, the approval for amending the decision from mere revision to reaffirm and revise was sent to members on 14 March 2023 giving them time till 18 March 2023. However no comments were received and it was presumed their approval for the same and the decision was amended to a reaffirm and revise on the BIS Portal.	
8.	Revision of IS 13751 : 1993 Tungsten ores for hard metal industry – Specification MTD 09 (21573)	The committee in its previous meeting after detailed deliberation decided revise the standard by doing the editorial changes in the standard to align with current BIS practices and requested member secretary to draft the revised draft and send it for P- circulation for 3 weeks' time. In case no comments are received/ comments received are editorial in nature, the same should be wide circulated for a period of 1 month to get the comments if any from the other stakeholders. The committee further decided that in case no comments are received /comments received are editorial in nature, the draft shall be sent for printing with the permission of the chairperson of MTD9 technical committee.	As decided by the committee, the draft enclosed below was sent in Circulation to members on 01-11-2022, inviting comments from members till 02-12-2022. 70_5515_221101122 013_Draft_Documen Since no comments were received on the Circulated draft, the draft document bearing document No. MTD 09 (21573) was sent for wide circulation on 23-12-2022, inviting comments from public domain till 24-01-2023. WCMTD3221573_22 122022_1.pdf Since no comments were received on the wide circulated draft bearing document No. MTD 09 (21573), it is being proposed to finalize the same and send it for printing.	The committee noted the information given in Item No 4, SI No 7 of the agenda. Further as no comments were received till the last date for comments during wide circulation, the committee after deliberation decided to finalize the below wide circulated draft and sent it for printing. WCMTD3221573_22 122022_1.pdf

Item 5 DRAFT STANDARD/ AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION

5.1 The committee noted the information given in Item 5.1 of the agenda and after detailed deliberations decided as follows:

Sl	Draft Indian	Background/Decision of the Committee in	Decision of the committee in	Actions Taken	Decision of the
No.	Standard /	its previous meetings	its previous 20 th meeting		committee during
	Amendment				this meeting.
1.	Revision of IS	The committee in its 19th meeting after	The committee after detailed	Shri S Ramesh of M/s B T Solders and Shri	The committee
	26 (Tin Ingot	deliberation given after deliberation requested	deliberation in its 20 th	Subrata Sadhu of M/s Tinplate Company of	noted the
	specification) &	Shri S Ramesh of M/s B.T Solders to provide	meeting requested Shri S	India Limited were requested vide email dated	information given in
	IS 4280 Refined	the updated specification as per international	Ramesh of M/s B T Solders	10 th January 2023 to submit the revised draft and	Item No 5, Sl No 1
	secondary Tin	standards to be added in IS 26 within 2 weeks'	and Shri Subrata Sadhu of	possibility of merging the two standards IS 26	of the agenda and
		time. On receipt of the recommendations, the	M/s Tinplate Company of	and IS 4280. In this regard, relevant documents	after detailed
		same would be circulated among the members	India Limited to submit the	like ASTM B339, BSEN 610 specifications etc.	deliberation decided

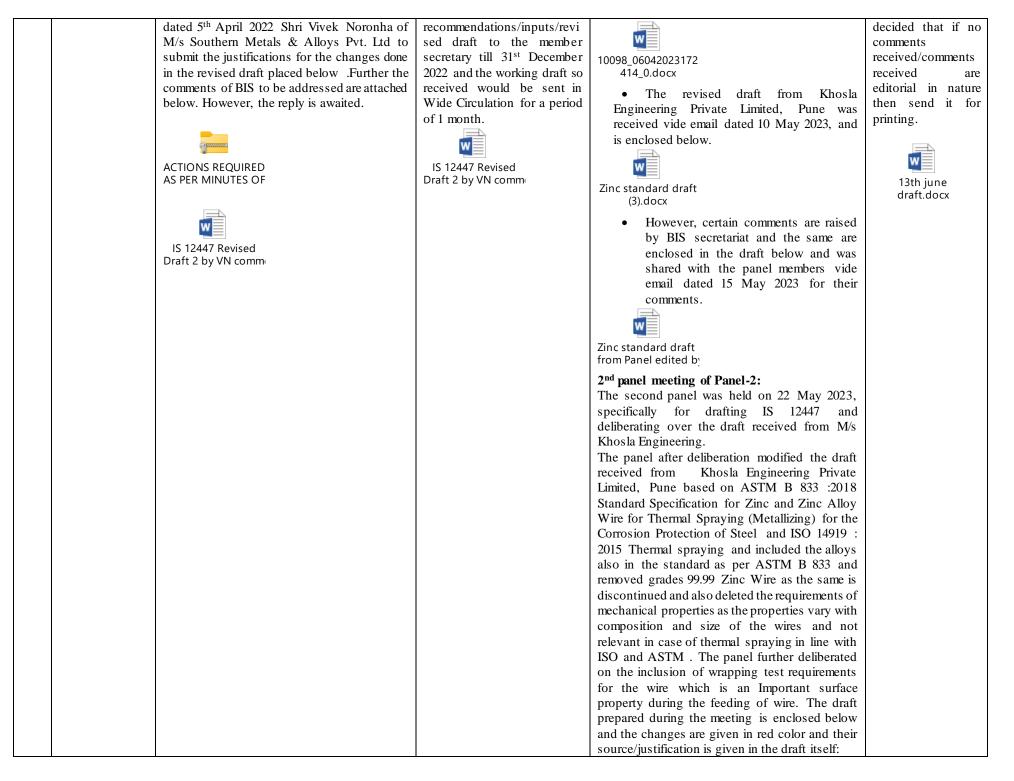
	for their comments/views which would be	recommendations/ revised	were shared with them. However no reply was	to send the below
	then discussed in the next technical committee	draft on both IS 4280	received.	revised draft for WC
	meeting for revising IS 26.	(Secondary Tin) and IS		for a period of two
	Action taken:	26(Tin ingot), also	PDF	months.
	Shri S Ramesh of M/s B.T Solders submitted	considering the possibility of	10th Jnauary	
	the updated specifications as per BSEN 610 to	merging the both standards	mail.pdf	w
	be included in the Indian standard IS 26 vide	with a common title as per	Accordingly, the Member secretary vide email	IS 26 NEW DRAFT
	email dated 05-04-2022 and the same is placed	international practices till 31st	dated 12 January 2023, shared the revised draft	BY SAQIB (2).docx
	below.	December 2022.The	enclosed below incorporating the grades from	The committee
	Further it is being proposed to merge the	committee further advised the	BSEN 610 and ASTM B 339 (TPSn99.85) and	further decided that
	standard IS 4280 (Refined Secondary tin	member secretary to send the	modification of sampling procedure in	if no comments are
	Ingot) with a common title Tin Ingot as per the	recommendations so received	accordance with BSEN 610, under a single title	received/comments
	available International Standards ASTM B	under P circulation for a	Tin Ingot .Further, the requirements of IS 4280	received are
	339, BSEN 610 and GB/T 728.	period of 3 weeks' time.	were also covered in the single standard of IS 26.	editorial in nature,
			It was requested to Shri S Ramesh of M/s B T	the same shall be
			Solders and Shri Subrata Sadhu of M/s Tinplate	sent for printing.
	×		Company of India Limited to review the draft and	sent for printing.
	BSEN 610 (2).xlsx		give their final views whether any changes are	
			desired or not .	
			January 12 mail.pdf IS 26 NEW DRAFT	
	B339.pdf		BY SAQIB (4).docx	
	5555.pai			
			A reminder email for the same was sent vide	
			email dated 16-February-2023. Reply was	
	20210208102931534		received vide email dated 17-feb-2023 from Shri	
	.pdf		Subrata Sadhu of M/s Tinplate Company of India	
			Limited and it was being commented that the new	
			"grade of Tin mentioned as TPSn99.85 as per	
			ASTM B339 needs to be removed. Tin used for	
			Tinplate manufacture in India is imported due to	
			non-availability in India and is very costly.	
			Availability of tin matching the exact chemical	
			composition for tinplate production is very	
			difficult. Also with reference to ISO 11949 & BS	
			EN 10202:2001, only the tin purity is mentioned	
			in these international standards so creating a	
			separate grade of tin for tinplate production is not	
			required."	
			Shri Subrata Sadhu of M/s Tinplate Company of	
			India Limited agreed to all other changes and the	
			reply recived is given below.	
			PDF	
			Reply 17 Feb.pdf	
1		I	1	

				Accordingly, the draft was modified by removing the grade and the draft enclosed below was sent for P circulation on 28- February-2023 inviting comments till 21 March 2023 for a period of 21 days. PMTD3222058_2802 2023_1(1).pdf Comments were received on the P- Circulated draft from Shri Subrata Sadhu of M/s Tinplate Company of India Limited to correct the	
				composition of Max. allowable As in Sn99.95 and max. total of all impurities in grade Sn99.75 and is enclosed below.	
				It is to inform to the committee that the changes proposed are just a typing error from BIS and it is being proposed to incorporate these changes in the draft standard and send the below draft for wide circulation for a period of one month. IS 26 NEW DRAFT BY SAQIB (2).docx	
2.	Revision of IS 209 Zinc Ingots and IS 13229 – Zinc for galvanizing	NA	The committee in its previous 20 th meeting requested the Panel-2 for Primary Zinc & Zinc Alloys consisting of Shri M Nambi (Panel Convener) ,Dr Rahul Sharma and Shri K Sridhar and Shri Vivek Noronha, to review the standard along with IS 13229 Zinc for galvanizing and submit their recommendations to the committee till 31st December 2022 on their merger and revision. On receipt of the recommendation, the same	1 st combined panel meeting of MTD 9 Panel 2 and Panel 4: It was held on 20 th march 2023 after detailed deliberation recommended to merge the standard IS 13229,IS 209 and IS 4699 to have single standard which covers the requirements for refined zinc as per the international practices. The panel further recommended to adopt ISO 20081 for sampling zinc and zinc alloys which needs to be referred in IS 209 and also further recommended to refer to ISO 3815-1 for chemical analysis using Spark OES also in IS 209 which is much accurate and faster method of determination of chemical composition. The panel requested the MS to communicate same with the MTD 34 TC and request them to adopt ISO 3815-1 as another part in IS 2600.The panel	The committee noted the information given in Item No 5, SI No 2 and SI No 3 of the agenda and after detailed deliberation decided as follows: 1. To send the revised draft enclosed below for WC for a period of two months. The committee further decided that if no
			has to be circulated to the	further decided to finalize the below draft and	comments

	I contract of the second se	•	
	committee members for 3	requested the member secretary to share the final	received/comm
	Weeks' time for their	draft (removing all the colorations and changes)	ents received
	views/comments. In case no	again with the members for final views whether	are editorial in
	comments are received , the	the drat is in line with the decisions of this panel	nature then
	same would be sent for Wide	till 1 weeks' time. In case no comments are	send it for
	circulation for a period of one	received /comments received are editorial in	printing.
	month	nature, the Member secretary would consider the	
		draft as finalized by the panel and circulate the	
		draft and other recommendations of the panel	w
		with the technical committee members for 3	IS 209 draft 2nd
		weeks period of time as per the decisions of	panel meeting MTD
		MTD9 TC in its 20th meeting. The minute of the	
		meeting is enclosed below.	2. The committee
			further decided
			to adopt ISO
		209n12 (1) (1).docx 10099_06042023172	20081 for
		646_0.docx	sampling zinc
			and zinc alloys
		Accordingly the final draft was shared with the	which needs to
		panel members for any further comments	be referred in
		/recommendations vide mail dated 22-03-2023	IS 209 as
		giving time till 26-03-2023.Shri Randhir Rathaur	suggested by
		of M/s Madhav KRG group (as one of the invitee	the panel and
		in the panel) vide email dated 22 March 2023	send the same
		agreed with the draft . However, the reply from	for wide
		other members was awaited.	circulation for
		other members was awared.	one month. The
			committee
		2 PDF	further decided
		Drfat as per	that if no
		decisons email.pdf	comments
			received/comm
		Further a reminder was sent on May 17, 2023 to	ents received
		the other members of the panel. However, the	are editorial in
		reply was awaited.	nature then
		icpiy was awalleu.	send it for
			printing.
		PDF	
		17 MAY Email.pdf	3. To request
			MTD34 TC to
			adopt ISO
		A meeting with Nambi Ji was held on 23 May	3815-1 solid
		2023, and the Clause 7.2 of the draft was	OES as another
		modified and Note 6 on Cadmium content was	part in IS 2600
		deleted. Also, for the information of the	as the method is
		purchaser and the supplier, the equivalent or	widely used by
		related grades existing in various international	manufacturers
		standards, are given in the Annex A.	being most

				T		£
					The modified draft as prepared is given below:	faster method
					w	of
						determination
					209n12 (1) (5) new	to assess the
					draft 23 maywithout	chemical
						composition.
					3 rd Panel meeting of Panel2:	
					8	
					The third panel meeting of MTD9/P-2 was held	
					on 13 th June2023. The Panel had recommended	
					to share the below draft with the committee	
					members for circulation. The minutes of the	
					panel meeting are also attached below.	
					panel meeting are also attached below.	
					w	
					IS 209 draft 2nd MINUTES 2ND	
					panel meeting MTDPANEL MEETING PAN	
					Final Status of Recommendations of the	
					panel:	
					1. The Panel 2 has recommended to merge	
					IS 209, IS4699, IS 13229 as per	
					international standards with a single	
					title refined Zinc.	
					w	
					IS 209 draft 2nd	
					panel meeting MTD!	
					P = · · · · · · · · · · · · · · · · · ·	
					2. The panel has recommended to adopt	
					2. The panel has recommended to adopt ISO 20081.	
					150 20081.	
					3. The panel has also recommended to	
					adopt ISO 3815-1 solid OES analysis as	
					another part in IS 2600 and requested	
					the Member Secretary to Communicate	
					the same to MTD34 Technical	
					Committee. The same has been	
					intimated by MS to MTD 34 TC.	
2			TE1 C 1			
3.	Revision of IS	The Committee in its 19 th meeting reviewed		etailed		
	4699- Refined	the ARP submitted by BIS officer for revising	deliberations decided			do
	Secondary	IS 4699 and aligning the grades with BSEN		anel-4		
		13283 : 2002 given below and after detailed	consisting of Shri	i K		

	Zinc-Specification	deliberation decided that since there is no adequate representation of members from Secondary Manufacturing Companies, upon receipt of list of manufacturers to be co-opted from ILZDA would be received A panel would be formed in the next committee meeting who will review the recommendation received from the BIS officer. ARP 4699.pdf REVISEDDRAFT 4699.docx ARP_Report 4699.pdf Action Taken : The ILZDA submitted the list of secondary producers of Zinc and the organization were reached out for their nominations. Nominations were received from J G CHEMICALS PVT LTD, Kolkata and CHAKRADHAR CHEMICALS PVT LTD, Muzaffarmagar (UP). However, nominations from RUBAMIN PRIVATE LIMITED, Vadodara are awaited.	Sridhar(Panel Convener), Dr Rahul Sharma, Shri Neeraj Kedia, and Shri Anirudh Jhunjhunwala, Shri M. Nambi to review the standard and the recommendations given by BIS Officer and requested the Panel convener to submit the final recommendations to the committee till 31 st December 2022. On receipt of the recommendation, the same has to be circulated to the committee members for 3 Weeks' time for their views/comments. In case no comments are received, the same would be sent for Wide circulation for a period of one month.	do	
4.	Revision of IS 12447:1988 Specification for Zinc wire for sprayed zinc coatings	The committee in its 19 th meeting after deliberation requested Shri Vivek Noronha of M/s Southern Metals & Alloys Pvt. Ltd to give the proper justification for the changes proposed in the revised draft enclosed at Appendix3 (while comparing it with the old draft submitted) of the agenda of 19 th meeting to the committee within 2 Weeks' time. Action Taken: Shri Vivek Noronha of M/s Southern Metals	The committee in its 20 th meeting after detailed deliberation on the second draft submitted and comments from BIS enclosed below in the draft itself, requested the Panel-2 consisting of Dr. Rahul from M/s IZA , Shri M Nambi (Panel Convener) from M/s HZL ,Shri K Sridhar and Shri Vivek Noronha of M/s southern	1 st Combined Panel meeting of Panel 2 for primary zinc and Panel 4 for secondary zinc: The panel in its 1 st combined meeting of MTD 9 Panel 2 and Panel 4 held on 20 th march 2023 after detailed deliberation decided that Dr Satish Tailor, Shri Vishal Kothari and Shri Vivek Noronha will submit the revised draft within two weeks' time. The draft submitted will be further circulated to the members for their views/comments. According to the comments received the final decision on WC of the draft will be discussed in the next panel meeting. The	The committee noted the information given in Item No 5, SI No 4 of the agenda and after deliberation decided to send the revised draft submitted by the panel for WC for a period of two months. The committee further
			Sridhar and Shri Vivek	received the final decision on WC of the draft	period of months.





Zinc standard draft from Panel edited by

The panel further requested Member Secretary to share the new draft along with the copy ISO 3815-1, IS 2600(relevant parts),IS 1755 with the panel members for refining the chemical analysis clause (i;e which Indian standards to be referred for chemical testing and referee analysis). Based on the inputs received from panel members the draft will be finalized in the next panel meeting.

Action taken: Accordingly draft of IS 12447 prepared by Member Secretary based on the suggestions during the meeting enclosed below along with the copy ISO 3815-1, IS 2600(relevant parts), IS 1755 was shared with the panel members for refining the chemical analysis clause (i;e which Indian standards to be referred for chemical testing and referee analysis) vide mail dated 31-05-2023.





DRAFT IS 12447 2nd Minutes panel WITH COMMENTS.d meeting.docx

Further the revised draft received from Shri Vivek Noronha vide mail dated 7-06-2023 enclosed below (refer to the yellow highlighted sections) which was shared with the panel members vide mail dated 08-06-2023 for inviting any further corrections/suggestions/modifications required in the standard.



WITH VN COMMEN

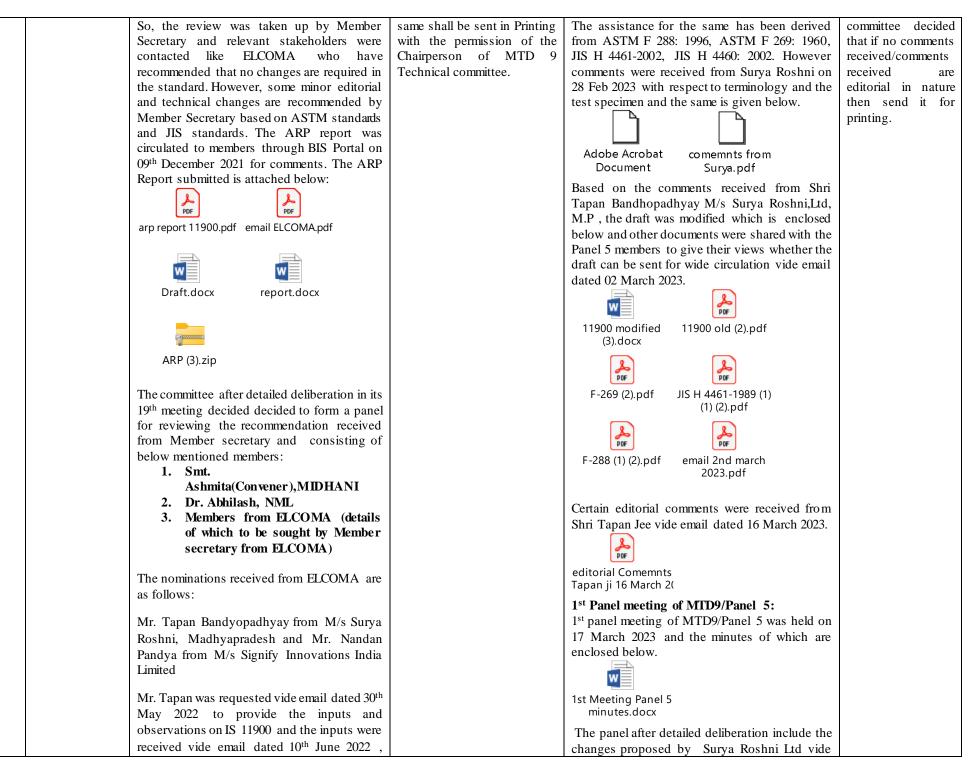
3rd Panel meeting to finalize the draft:

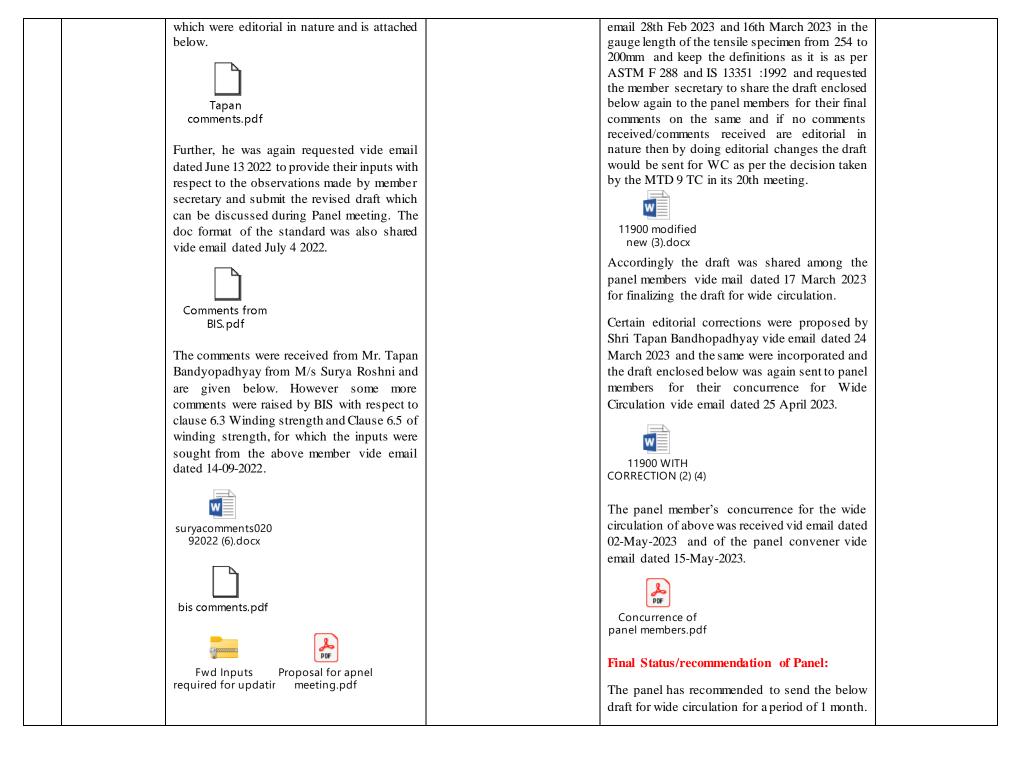
3rd panel meeting of Panel 2 was held on 13-june 2023 and the draft enclosed below was finalized in the meeting. The minutes of the 3rd panel meeting are also enclosed below:

				Minutes of 3RD 13th june MEEITING MTD9P2 (draft.docx Final Status/recommendations of the panel: 1. The panel recommended to finalize the below revised draft for Wide circulation. 13th june draft.docx	
5. Revision 3717 : 19' Specificat for r secondary (First Rev	77 ti tion Li refined d y lead a vision) S r f v n n f v v n f v v n v n f v v n f v v n f v v n f v v n f v v n f v v n v v v v n v v n v v v n v v v v v v v v v v v v v	The Committee in its 19 th meeting reviewed the ARP submitted by BIS officer for revising IS 3717 and given below and after detailed deliberation decided that since there is no adequate representation of members from Secondary Manufacturing Companies, upon receipt of list of manufacturers to be co-opted from ILZDA would be received A panel would be formed in the next committee meeting who will review the recommendation received from the BIS officer.	 The committee in its previous meeting decided to reconstitute the panel-1 consisting of: 1. Shri K Sridhar, of M/s ILZDA (Panel convener) 2. Shri KHK Srinivas, of M/s NILE lead Ltd. 3. Shri Amrendra Jha of M/s Arya Alloys 4. Shri M. Nambi of M/s HZL 5. Gravitas India Ltd., Jaipur The committee decided to revise the standard and further requested the panel to review the standard and the recommendations submitted by BIS officer and submit the revised draft till 31st December 2022. 	The Panel-1 was requested vide email dated 23- March-2023 to review the draft and the recommendations submitted by the BIS Officer and give the final recommendations/revised draft till 28-March-2023. Finall23 march.pdf REVISED DRAFT 3717 (3).docx Fwd Review of the standard on IS 3717 Comments and the modified were received from M/s Arya Alloys and are enclosed below vide email dated 28-April-2023. It is being proposed to relax the zinc impurity from 0.0005(as per BSEN 12659 AND GB/T 469) to 0.001 percent max in 99.97 grade .Further it is being proposed by Arya alloys to relax the impurities of Antimony from 0.001 to 0.003 percent . Further the changes are proposed in 99.98 Grade in antimony which is currently being traded on MCX and which indicates that no changes are required in this grade. Comments from REVISED DRAFT arya alloys.pdf REVISED DRAFT 3717 (7).docx	The committee noted the information given in Item No 5, SI No 5 of the agenda and after detailed deliberation agreed to relax the impurity content of Zinc to 0.001 percent as per SILMA specifications and Gravitas Specification and verified the same from their website and also stated that since the maximu m impurity in next higher grade 99.98 is 0.001 percent max for zinc hence it is logical to relax the impurity content for zinc but not antimony. The committee further agreed to the view of BIS that total impurities itself is a requirement in the chemical composition and hence it doesn't

 Finite of the maximum capped by 0.03 models of the maximum capped by 0.0				
 Imail from bits on meccand-mespapor Imail from bits on meccand-mespapor Imail for the stringer requirements on the stringer requirement is the stringer requirement and stringer requirement is the stringer requirement also and stringer requirements in the stringer requirement also and stringer requirements in the stringer requirement also and stringer requirement also and stringer requirements in the stringer requirement also and stringer requirements in the stringer requirement also and stringer requirements in the stringer requirement also and stringer requirement also and stringer requirements and and stringer requirement is stringer requirement in the stringer requirement also and stringer requirements in the stringer requirement also and stringer requirements in the stringer requirement in the stringer requirement in the stringer requirement in the stringer requirements in the stringer requirements in the stringer requirement also and stringer requirements in the stringer requirement in the stringer requirements i			2	
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0.003%				
				respectively.

					4. The committee
					further requested the
					member
					secretary to
					incorporate all
					the changes in the draft and
					send the same
					for wide
					circulation for a
					period of 2
					month. If some
					technical comments
					received on the
					wide circulated
					draft it will be
					discussed in the
					next committee
					meeting and if
					no comments received/comm
					ents received
					are editorial in
					nature then
					send it for
					printing.
					w
					SILMA
					SPECIFICATION.docx
					w
					gravitas website
					specification lead.dc
6.	Revision of IS	The committee in its 18 th meeting decided to			The committee
	11900:1986		-	the changes is enclosed below and the same was	
	Specification	Parmi of M/s MIDHANI & Philips India Ltd. Accordingly, Shri Vamsi Krishna of M/s	standard and requested panel - 5 to submit the revised	shared with the panel on 27 th Feb 2023 incorporating all the changes proposed by Surya	information given in Item No 5, Sl No 6
	for tungsten rods and	MIDHANI have informed that their	standard till 31 st December	Roshni Ltd. The changes are highlighted in red	of the agenda and
	tungsten wire	organization is not dealing with the product.	2022.The draft so received	color.	after deliberation
	for lamps and	Several attempts were made to follow up	shall be sent in Wide		decided to send the
	electron devices	with Philips India but no response was	circulation inviting comments		revised draft
		received Several attempts were made to follow	for a period of one month. In	11900	submitted by the
		up with Philips India but no response was received	case no comments are received/commence received	modified.docx	panel for WC for a period of two
			are editorial in nature, the		months. Further the





				11900 WITH CORRECTION (2) (4)	
7.	Revision of IS 13351 : 1992 Thoriated tungsten wires and rods - Specification	NA	The committee after detailed deliberation decided to allocate the standard to Member secretary for review.	Member secretary had reviewed the standard vis- à-vis ASTM F288 :1996 and based on the review it was proposed to revise the standard by including the changes proposed in the draft enclosed below. The main changes being addition of 1 percent thoria grade as per ASTM F 288 , modification of chemical composition of thoria in existing grade and deletion of referee method for measuring out of roundness. Further the clause 5.2.1 for determination of purity and thoria content has been modified. The ARP was circulated to members along with the draft on 27- September-2022 inviting comments till 25-October-2022. However, no comments were received on the circulated ARP .	The committee noted the information given in Item No 5, SI No 7 of the agenda and after detailed deliberation decided to send the revised draft submitted by the panel for WC for a period of two months. The committee further decided that if no comments received/comments received are editorial in nature then send it for printing.

				IS 13351 panel WC.docx The panel member's concurrence for the wide circulation of above was received vid email dated 02-May-2023 and of the panel convener vide email dated 15-May-2023. Concurrence of panel members.pdf Final Status/recommendation of Panel: The panel has recommended to send the below draft for wide circulation for a period of 1 month.	
8.	Revision of IS 5479 : 1985 Specification for solders for jointing aluminium and aluminium alloys (First Revision) MITD 09 (22091)	NA	Since the standard was due for review in March 2023, the committee requested the member secretary to look for the manufacturers of the aluminium solders and submit the information to the committee in its next committee meeting and parallelly send the revised draft in new BIS format by doing the editorial changes in P circulation for a period of 21	Is 13351 panel WC.docx It was observed by member secretary that in the earlier draft assistance was derived from JIS Z 3281- Solders for Aluminium and Aluminium alloys. Further as decided, the draft was prepared by member Secretary by doing the cosmetic changes and aligning the same with latest format of BIS and the same was sent in P-Circulation on 10-03- 2023 for 21 days inviting comments till 31-march 2023.	Since the committee in its previous meeting had already decided to revise the standard and the standard was due for review in March 2023, Hence the committee post facto approved the decision to reaffirm and revise the standard.
			days.	 PMTD3222091_1003 2023_1(1).pdf Since no comments were received on the P Circulated document bearing Document No. MTD 09 (22091), it is being proposed to send the same for Wide Circulation for a period of one month. Further Actions Taken by Member Secretary which requires Post Facto approval: 	Further, The committee noted the information given in Item No 5, Sl No 8 of the agenda and after detailed deliberation decided to send the revised draft enclosed below for WC for a

			The committee had already decided in its 20th meeting to revise the standard by doing the editorial/cosmetic changes only. However, since the standard has become due for reaffirmation, on March 2023, the approval for amending the decision from mere revision to reaffirm and revise was sent to members on 14 March 2023 giving them time till 18 March 2023. However no comments were received and it was presumed their approval for the same and the decision was amended to a reaffirm and revise on the BIS Portal.	period of two months. The committee further decided that if no comments received/comments received are editorial in nature then send it for printing. PMTD3222091_1003 2023_1(1).pdf
9. Revision of I 211 : 1992 Antimony ingo - Specificatio Fourth Revision MTD (0 (22138)	t	The committee in its previous meeting decided to allocate the standard to member secretary and further decided to revise the standard by doing the editorial changes in the standard and send the same for P circulation for a period of one month. In case no comments are received/ comments received are editorial in nature, the same would be sent in wide circulation for a period of one month with the permission of the Chairperson of MTD9 TC. The committee further decided that in case no comments are received are editorial in nature on the wide circulated draft, the same would be sent in printing with the permission of MTD9 TC.	It is to inform to the committee that international standard ASTM B237 Standard Specification for refined antimony Jn line with ASTM, the scope now covers the requirements of refined antimony produced by any smelting and refining process from ore or recycled materials to meet the chemical requirements of this specification which earlier specified from ore only. The Sulphur content of Grade99.50 has been made in line with ASTM B237 and has been reduced from 0.15 to 0.10 percent. The sampling clause has also been modified in line with ASTM. Accordingly, the draft enclosed below (CHANGES ARE HIGHLIGHTED IN RED IN DRAFT) was sent for circulation among the members on 24-01-2023 and no comments were received till the last date 24-02-2023.	The committee noted the information given in Item No 5, SI No 9 of the agenda and after detailed deliberation agreed to the changes done in the draft and decided to send the revised draft enclosed below for WC for a period of two months. The committee further decided that if no comments received/comments received are editorial in nature then send it for printing.

Item 6 LIST OF INDIAN STANDARDS OF MTD-9

6.1 The committee noted the complete list of Indian Standards formulated by MTD-9 as given in Annexure-3 of the agenda of the Meeting

6.2 The committee also noted the information regarding the separate list of Indian Standards formulated according to the respective metals and its alloys given in ITEM 6.2 of the Agenda.

Item 7 COMMENTS ON PRINTED STANDARDS

7.1 The committee noted the information as given in item 7.1 of the agenda of the meeting and after detailed deliberation decided that the comments placed at Item 7.1 of the agenda shall be discussed in the next committee meeting.

Item 8 REVIEW OF INDIAN STANDARDS

8.1 The Committee noted the information given in Item 8.1 of the Agenda of the Meeting.

8.2 The committee noted the information given in Item 8.2 of the Agenda of the meeting and decided the following for the standards that are due for review/reaffirmation this year;

Sl. No.	IS No.	Title	Due Date	Actions proposed	Decision of the committee during this
					meeting
1.	IS 211: 1992	Antimony ingot - Specification (Fifth Revision)	February, 2024	It is being proposed to reaffirm and revise as the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 1 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
2.	IS 13229 : 1991	Zinc for galvanizing - Specification	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 2 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.

3.	IS 13751 : 1993	Tungsten for hard metal industry - Specification	March, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 3 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
4.	IS 26 : 1992	Tin ingot - Specification (Fourth Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, SI No 4 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
5.	IS 27 : 1992	Pig lead - Specification (Fourth Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, SI No 5 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
6.	IS 3717 : 1977	Specification for refined secondary lead (First Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, SI No 6 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.

7.	IS 4280 : 1992	Refined secondary tin - Ingot specification (Second Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 7 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
8.	IS 713 : 1981	Specification for zinc base alloy ingots for die casting (Second Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 8 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
9.	IS 742 : 1981	Specification for zinc base alloy die castings (Second Revision)	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 9 of the agenda and after detailed deliberation decided that as the standard is already under revision hence decided to reaffirm and revise the standard.
10.	IS 10816 : 1984	Methods of sampling zinc and lead concentrates	March, 2024	Proposed for withdrawal by the committee in its previous meeting and superseding it with IS 12871/ISO 12743.	The committee noted the information given in Item No 8.2, Sl No 10 of the agenda and after detailed deliberation decided to withdraw the standard and superseding it with IS 12871/ISO 12743.

11.	IS 1654 : 1992	Lead - Antimony alloys - Specification (Third Revision)	February, 2024	It is being proposed to archive the standard as per the plan .	The committee noted the information given in Item No 8.2, SI No 11 of the agenda and after detailed deliberation decided to archive the standard and decided to take it up for revision when there is adequate representation of relevant members/experts in the Panel-1 for lead and lead alloys.
12.	IS 404 (Part 1) : 1993	Lead pipes - Specification: Part 1 for other than chemical purposes (Third Revision)	February, 2024	It is being proposed to archive the standard as per the plan The committee may please deliberate and decide.	The committee noted the information given in Item No 8.2, SI No 12 of the agenda and after deliberation decided to archive the standard and further decided to take it up for revision when there is adequate representation of relevant members/experts in the Panel-1 for lead and lead alloys.
<mark>13.</mark>	IS 404 (Part 2) : 1993	Lead pipes - Specification: Part 2 for chemical purposes (Third Revision)	February, 2024	It is being proposed to archive the standard as per the plan. The committee may please deliberate and decide.	The committee noted the information given in Item No 8.2, Sl No 13 of the agenda and after deliberation decided to archive the standard.
14.	IS 405 (Part 1) : 1992	Lead sheets and strips - Specification: Part 1 for chemical purposes (Third Revision)	February, 2024	The standard is being proposed for archive as per the plan. The committee may please deliberate and decide.	The committee noted the information given in Item No 8.2, Sl No 14 of the agenda and after deliberation decided to archive the standard.
<mark>15.</mark>	IS 405 (Part 2) : 1992	Lead sheets and strips - Specification: Part 2 for	February, 2024	It is being proposed to archive the standard as per the plan.	The committee noted the information given in

		other than chemical purposes (Third Revision)		The committee may please deliberate and decide.	Item No 8.2, Sl No 15 of the agenda and after deliberation decided to archive the standard.
16.	IS 8439 : 1977	Methods for sampling of lead and lead alloys	February, 2024	It may be allocated to the panel for its thorough review and recommend whether to revise/ only editorial changes are required/withdraw/archive. It is to inform to the committee that for sampling lead and lead alloys EN 12402:1999 exists.	The committee noted the information given in Item No 8.2, Sl No 16 of the agenda and after deliberation requested panel 1 to review the standard thoroughly and suggest/recommend whether to revise/reaffirm/archive the standard.
17.	IS 2782 :1964	Primary Nickel Specification	March, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, Sl No 17 of the agenda and after deliberation decided that as the standard is already under revision hence reaffirm and revise the standard.
18.	IS 12447:1988	Specification For Zinc Wire For Sprayed Zinc Coatings	February, 2024	It is being proposed to reaffirm and revise the standard as it is already under revision.	The committee noted the information given in Item No 8.2, SI No 18 of the agenda and after deliberation decided that as the standard is already under revision hence reaffirm and revise the standard.

8.3 The committee noted the information given in Item **8.3** of the Agenda and after detailed deliberations decided as follows for the review of pre 2000 year Standards.

A. PRIMARY ZINC AND ZINC ALLOYS

IS No. & Title	Decisions of the committee in previous meetings	Action taken	Decision of the committee during this meeting
IS 209 : 1992 Zinc ingot - Specification (Fourth Revision)	The committee requested the Panel-2 for Primary Zinc & Zinc Alloys consisting of Shri M Nambi (Panel Convener), Dr Rahul Sharma and Shri K Sridhar, to review the standard along with IS 13229 Zinc for galvanizing and submit their recommendations to the committee till 31 st December 2022. On receipt of the recommendation, the same has to be circulated to the committee members for 3 Weeks' time for their views/comments. In case no comments are received, the same would be sent for Wide circulation for a period of one month.	Kindly refer to item 5 Sl 2 Page No 19 of this minutes.	Kindly refer to item 5 SI 2 Page No 19 of this minutes.
IS 13229 : 1991 Zinc for galvanizing - Specification	_	_	do
IS 713 : 1981 Specification for zinc base alloy ingots for die casting Second Revision	The committee requested the panel-2 for Primary Zinc & Zinc Alloys consisting of Shri M Nambi (Panel Convener), Dr Rahul Sharma and Shri K Sridhar to review the standard and also take into consideration the information shared by BIS Secretariat and submit the recommendations to the committee till 31 st December 2022. On receipt of the recommendation, the same has to be circulated to the committee members for 3 Weeks' time for their views/comments. On receipt of the recommendation, the same has to be circulated to the committee members for 3 Weeks' time for their views/comments. In case no comments are received, the same would be sent for Wide circulation for a period of one month.	Kindly refer to item 3 Sl no 3 Page No 9 of this minutes.	Kindly refer to item 3 Sl no 3 Page No 9 of this minutes.

B. <u>SECONDARY ZINC</u>

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision	of	the
			committee	du	ring
			this meetin	g	

IS 4699 : 1984 Specification for refined secondary zinc First Revision	acciaca to constitute the runer resisting of Shirin	Kindly refer to item 5 Sl no 3 Page No 22 of this minutes.	Kindly refer to item 5 Sl no 3 Page No 22 of this minutes.
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C. ZINC PRODUCTS

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee during this meeting
IS 742 : 1981 Specification for zinc base alloy die castings Second Revision	 The committee after detailed deliberations decided to constitute the panel-3 consisting of : a) DST Industries (Details of point of contact to be given by Dr. Rahul Sharma) b) Shri M. Nambi c) Dr. Rahul Sharma (Panel Convener) The committee requested the panel to review the standard and submit their recommendations/revised draft to the committee till 31st December 2022. 	Kindly refer to item 3.1 Sl no 4 Page No 10 of this minutes.	Kindly refer to Item 3.1 Sl no 4 Page No 10 of this minutes.

D. LEAD AND LEAD ALLOYS

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the
			committee during
			this meeting
IS 3717 : 1977	The committee noted the information and decided to	Kindly refer to item	Kindly refer to item
Specification for refined	reconstitute the panel-1 consisting of:	5 SI no 5 Page No 25	5 SI no 5 Page No
secondary lead First	6. Shri K Sridhar, of M/s ILZDA (Panel	of this minutes.	25 of this minutes.
Revision	convener)		
	7. Shri KHK Srinivas, of M/s NILE lead Ltd.		

IS 1654 : 1992 Lead - Antimony alloys - Specification Third Revision	 Shri Amrendra Jha of M/s Arya Alloys Shri M. Nambi of M/s HZL Gravitas India Ltd., Jaipur The committee decided to revise the standard and further requested the panel to review the standard and the recommendations submitted by BIS officer and submit the revised draft till 31st December 2022. The committee noted the information and decided to reconstitute the panel-1 consisting of: Shri K Sridhar, of M/s ILZDA (Panel convener) Shri KHK Srinivas, of M/s NILE lead Ltd. Shri Amrendra Jha of M/s Arya Alloys Shri M. Nambi of M/s HZL Gravitas India Ltd. Jaipur The committee requested the panel to review the standard and submit their recommendation to the committee till 31st December 2022. 	Kindly refer to item 3 Sl no 5 Page No 12 of this minutes.	The committee noted the information given in Item No 8.3.1, SI No D of the agenda and after deliberation decided to archive the standard and take up for revision at the later stage with proper representation of experts/members in the panel-1. Kindly refer to item 3 SI no 5 Page No 12 of this minutes.
IS 14688 : 1999 Lead - Antimony alloy bricks for radiation shielding - Specification	NA	NA	The committee after deliberation decided to discuss it in the next committee meeting.

E. LEAD AND LEAD ALLOY PRODUCTS

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee
			during this meeting
IS 404 (Part 1) : 1993	NA	NA	The committee noted the
Lead pipes -			information given in Item No
Specification Part 1			8.3.1, Sl No E of the agenda
for other than			and after deliberation decided

chemical purposes Third Revision			to archive the standard and take up for review at the later stage with proper representation of experts/members in the panel-1.
IS 404 (Part 2) : 1993 Lead pipes - Specification Part 2 for chemical purposes Third Revision	NA	NA	The committee noted the information given in Item No 8.3.1, SI No E of the agenda and after deliberation decided to archive the standard
IS 405 (Part 1) : 1992 Lead sheets and strips - Specification Part 1 for chemical purposes Third Revision	NA	NA	DO
IS 405 (Part 2) : 1992 Lead sheets and strips - Specification Part 2 for other than chemical purposes Third Revision	NA	NA	DO

F. ANODES FOR ELECTROPLATING

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee during this meeting
IS 2605 : 1985 Specification for zinc anodes for electroplating First Revision	The committee in its previous meeting after detailed deliberation decided to send the draft enclosed at Appendix 3 of the minutes of previous meeting for Wide Circulation for 1 month. In case no comments are received/comments received are editorial in nature, the same would be sent for printing with the permission of the chair of MTD9 Technical committee.	Kindly refer to item 4 Sl no 3 Page No 15 of this minutes.	Kindly refer to item 4 Sl no 3 Page No 15 of this minutes.
IS 2604 : 1988 Specification for lead anodes for electroplating (Second Revision)	The committee in its previous meeting requested Dr. Jayakumar of M/s CECRI to review the standard and submit their recommendation till 31 st December 2022 whether to revise/withdraw the standard.	Kindly refer to item 3 Sl no 6 Page No 12 of this minutes.	Kindly refer to item 3 Sl no 6 Page No 12 of this minutes.

IS 2602 : 1989	The committee in its previous meeting requested Dr.	Kindly refer to	Kindly refer to item 3 Sl no 7
Cadmium anodes	Jayakumar of M/s CECRI to review the standard	item 3 Sl no 7	Page No 13 of this minutes.
for electroplating	and submit their recommendation till 31st December	Page No 13 of this	-
	2022 whether to revise/withdraw the standard.	minutes.	
Revision)			

G. ANTIMONY

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee
			during this meeting
IS 211 : 1992	Kindly refer to item 5 Sl no 9 Page No 32 of this	Kindly refer to	Kindly refer to item 5 Sl no 9
Antimony ingot -	minutes.	item 5 Sl no 9	Page No 32 of this minutes.
Specification Fourth		Page No 32 of this	
Revision		minutes.	

H. <u>TUNGSTEN</u>

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee during this meeting
IS 11900 : 1986 Specification for tungsten rods and tungsten wire for lamps and electron devices	The committee noted the information and decided to revise the standard and requested panel-5 to submit the revised standard till 31 st December 2022.The draft so received shall be sent in Wide circulation inviting comments for a period of one month. In case no comments are received/commence received are editorial in nature, the same shall be sent in Printing with the permission of the Chairperson of MTD 9 Technical committee.	Kindly refer to item 5 Sl no 6 Page No 27 of this minutes.	Kindly refer to item 5 Sl no 6 Page No 27 of this minutes.
IS 13351 : 1992 Thoriated tungsten wires and rods - Specification	The committee after detailed deliberation decided to allocate the standard to Member secretary for review.	Kindly refer to item 5 Sl no 7 Page No 30 of this minutes.	Kindly refer to item 5 Sl no 7 Page No 30 of this minutes.
IS 13751 : 1993 Tungsten for hard metal industry - Specification	The committee after detailed deliberation decided revise the standard by doing the editorial changes in the standard to align with current BIS practices and requested member secretary to draft the revised draft and send it for P-circulation for 3 weeks time.	Kindly refer to item 4 Sl no 8 Page No 17 of this minutes.	Kindly refer to item 4 Sl no 8 Page No 17 of this minutes.

In case no comments are received/ comments	
received are editorial in nature, the same should be	
wide circulated for a period of 1 month to get the	
comments if any from the other stakeholders. The	
committee further decided that in case no	
comments are received /comments received are	
editorial in nature, the draft shall be sent for	
printing with the permission of the chairperson of	
MTD9 technical committee.	

I. MOLYBDENUM

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee during this meeting
IS 12445 : 1988 Specification for molybdenum plate sheet strip and foil	NA	NA	The committee noted the information given in Item No 8.3.1, Sl No I of the agenda and after deliberation decided to discuss it in APRIL 2024 TO JUNE 2024 QUARTER
IS 12465 : 1988 Specification for molybdenum wires for lighting and electronic application	NA	NA	DO
IS 13350 : 1992 Molybdenum rods - Specification	NA	NA	DO

J. <u>SAMPLING</u>

IS No. & Title	Decisions of the committee in	Actions taken	Decision of the
	previous meetings		committee during this
			meeting
IS 8439 : 1977	To be taken up for review in the	Kindly refer to item 3.1 Sl no 8 Page No 13 of	Kindly refer to item 3.1
Methods for	next quarter JULY 2023 -	this minutes.	Sl no 8 Page No 13 of this
sampling of	SEPTEMBER 2023		minutes.

lead and lead alloys IS 1817 : 1961 Methods of sampling non - Ferrous metals for chemical analysis	To be taken up for review in the next quarter JULY 2023 – SEPTEMBER 2023	NA	The committee after deliberation decided to discussed it in the next committee meeting.
IS 10816 : 1984 Methods of sampling zinc and lead concentrates	The committee noted the information and after detailed deliberation recommended to withdraw the standard based on the justification proposed by Shri M. Nambi of M/s HZL.	NA	The committee noted the information given in Item No 8.3.1, Sl No J of the agenda and after deliberation decided to withdraw the standard and superseding it with IS 12871/ISO 12743. Kindly refer to item 8.2 Sl no 10 Page No 35 of this minutes.

K. BEARING ALLOYS

IS No. & Title	Decisions of the committee in previous meetings	Actions taken	Decision of the committee during this meeting
IS 25 : 1979 Specification for antifriction bearing alloys Third Revision	The committee in its 18 th meeting decided to allocate the standard to the Bi-metallic bearings . However While contacting Bimetallic Bearings Ltd, it was found that they are not dealing with the plain bearing products. Meanwhile, Allocated to BIS Officer (Phase 3) by PRTD Department. The ARP Report along with draft received is placed below and the same was circulated to members through our portal dated 03/02/2022 for their views/comments. The changes as	august 2022 to give the nominations. PGD 13 has informed that there is a separate panel for plain bearings which looks after all the	The committee after deliberation decided to discuss it in APRIL 2024 TO JUNE 2024 QUARTER.

	proposed may be considered by technical committee for revision. ARP.pdf Revised Draft_8475.docx The committee in its 19 th meeting decided that, due to inadequate representation from bearing manufacturers advised member secretary to get the nomination of members from PGD 13 Technical committee to get them onboard on the panel which would review the recommendation received from the BIS officer. The committee further advised Member secretary to parallely request the members of the Technical Committee to	The committee noted the information and advised member secretary to get the view of the panel.	
IS 8475 : 1977 Specification for lead - Base antifriction bearing alloy for heavy duty applications	The committee noted the information and after detailed delebration decided that since the grades mentioned in IS 8475 are derived from IS 25 itself and hence the panel which will be formed for IS 8475 will also review IS 25 and submit their commendations for consideration to the committee.	do	do

Item 9 NEW SUBJECTS FOR STANDARDIZATION

9.1 The committee has noted the information as given in item 9.1 to 9.5 of the agenda.

9.2 During the meeting, brief presentation on Continuous Galvanizing Grade (CGG) Zinc Alloys for Hot-Dip Galvanizing of Sheet Steel was given by Shri M. Nambi, In his presentation he addressed that while importing the zinc for galvanizing, the importers follow ASTM standard and the domestic manufactures supply zinc as agreed between purchaser and manufacturer so we need one standard to follow for manufacturing and supply of zinc for galvanizing. Hence he proposed to formulate new standard as a small R&D project on Continuous Galvanizing Grade (CGG) Zinc Alloys for Hot-Dip Galvanizing. Hence he proposed to formulate new standard as a small R&D project on Continuous Galvanizing Grade (CGG) Zinc Alloys for Hot-Dip Galvanizing. He further informed the committee details about the ASTM B852 standard which exists on the same subject, need for standardization, possible users and the domestic manufacturers. The committee after deliberation finalized to formulate new standard on Continuous Galvanizing Grade (CGG) Zinc Alloys under R&D project and decided to form a new panel (namely Panel-6 For formulating news standard on CCG Zinc alloys) consisting of below members with Shri M Nambi of M/s HZL, Udaipur as the project leader/Convener. The committee further requested Nambi Ji to share the proper details of below organization and the relevant persons to the Member Secretary of the below organizations to be contacted for getting the nominations and inducting them into the panel. The committee further decided that for testing and validation and property evaluation shall be done at NML via BIS, if required as informed by Dr. Abhilash of M/s NML.

The committee further requested the project leader to submit the Terms of Reference of the project indicating the estimated cost (for literature survey, testing and validation etc), procedure of R&D and its Scope once the members of the panel are on board.

The details of the presentation is enclosed below:



Details of Panel Members:

Shri M. Nambi , M/s HZL Udaipur M/s Tata Steel M/s JSW Steel M/s POSCO M/s SAIL M/s Nippon Steel M/s NML Item 10 WTO-TBT Enquiry Point

10.1 The committee has noted the information as given in item 10.1 to 10.6 of the agenda of the meeting.

Item 11 INTERNATIONAL ACTIVITIES

11.1 The committee has noted the information given in item **11.1** of the agenda of the meeting.

11.2 The committee has noted the information given in item 11.2 of the agenda of the meeting and after deliberation requested committee members to come forward to actively participate in the meetings of the ISO. The committee further decided that as India is a 'O' member on ISO/TC 333 -

Lithium and there is lot of advancement taking place in EV sector and subsequently in battery manufacturing, requested members to suggest name of the member/expert on Lithium to represent India at ISO level.

11.3 The committee has noted the information given in item **11.3** of the agenda of the meeting. Further the committee opined that the ISO 9453 :2020 is an extensive standard covering large number of varieties grades and is largely accepted in the solder industry and finally decided to adopt ISO 9453:2020 under dual numbering system and harmonize our Indian Standard IS 193 with ISO 9453:2020 and send the same for wide circulation for a period of one month. Incase no comments are received/comments received are editorial in nature, the same shall be sent for printing.

Item 12 IMPLEMENTATION OF INDIAN STANDARDS

12.1 The committee has noted the information given in item 12 of the agenda of the meeting. The Chairman has advised the members to promote the usage of the Indian standards formulated by the committee in their respective organizations.

Item 13 R&D PROJECTS FOR ESTABLISHMENT/REVISION OF INDIAN STANDARDS

13.1 The committee has noted the information as given in item 13 of the agenda of the meeting and after deliberation requested members that all the standards which are taken up for revision should be taken as action research project which should be a kind of literature survey or imperical data survey or small R&D project.

Item 14 LATEST INITIATIVES TAKEN BY BIS:

14.1 The committee has noted the information as given in item 14.1 to 14.7. of the agenda of the meeting and the plan presented thereof in the rolling annual action plan.

14.2 The Committee has noted the information given by Member Secretary through a presentation before the committee discussing on Item **14.8.1** about the latest process reforms undertaken by BIS under seven points as following:

- 1. Identification of New Areas for Standardization.
- **2.** Creating Support Structures.
- 3. Stakeholder Management.
- 4. Committee Management Strategy.
- 5. Enhancing International Footprint.
- 6. Digital Transformation.
- 7. Standards Promotion.

14.3 The Committee has noted the rolling annual action plan presented by the member secretary during the meeting, as outlined in item 14.8.2 of the agenda.

14.4 The committee has noted the information as given in item 14.8.3 of the agenda of the meeting with regards to tentative schedule of the committee meetings and after deliberation decided that the final place and mode for next meeting shall be decided in concurrence with the chairman of the MTD9 Technical Committee.

14.5 The Committee noted the information given in **Item 14.9 and 14.10** of the agenda of this meeting and after deliberation requested committee members to provide the details of National and International events to be participated and Scientific Journals/Magazines to be subscribed which would be beneficial for standardization, getting information of stakeholders and new subjects /areas for standardization.

ITEM 15 ANY OTHER BUSINESS

15.1 The committee noted the information given in **Item 15.1** of the Agenda and after deliberation appreciated the approach of BIS on creating the additional mailing list for receiving the wide circulation drafts etc, requested the member secretary to share the format listing out different categories of metals and share the same with members, who would provide the contact details like email address, organization, name and Phone numbers of the technical persons dealing with that area/field and the same shall be added in the additional mailing list of BIS.

The committee while deliberating on the topic of lithium further requested the Member Secretary to create a separate panel for lithium under the title "Panel-7 Lithium" and write to the CECRI and NML for getting the nominations for relevant persons for working in the standardization in the field of lithium mining, concentration, extraction, separation and conversion to useful lithium compounds/materials (including oxides, salts, metals, master alloys, lithium-ion battery materials, etc.), standards related to terminology, technical conditions of delivery to overcome transport difficulties, unified testing and analysis methods to improve the general quality of lithium products. Some of the suggested members for this panel are Dr. Pratima Meshram (NML) and Dr. M. Jayakumar (CECRI).

15.2 The meeting ended with a vote of thanks by the Member Secretary to the chairperson and other members of the technical committee.