

BUREAU OF INDIAN STANDARDS

MINUTES

16TH MEETING OF AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT SECTIONAL COMMITTEE, LITD 07 IN JOINT SESSION WITH AUDIO PANEL P1 (LITD 07/P1), VIDEO PANEL P2 (LITD 07/P2), MULTIMEDIA DELIVERY PLATFORM PANEL P3 (LITD 07/P3) AND “SET-TOP BOX STANDARDS” PANEL 5 P5 (LITD 07/P5)

DATE: 11 September 2023 DAY : MONDAY TIME:10:30h-13:30h	VENUE: Hybrid mode Lal C. Verman Hall, BIS HQ, New Delhi and Webex Meeting link: https://bismanak.webex.com/bismanak/j.php?MTID=m031d1b9e65c9c2bb342457301bab2b5d Meeting number: 2510 074 2067 Password : 7@16
Chairperson: Shri N. Thiyagarajan	Member Secretary: Shri Kshitij Bathla

List of participants is given in **Annex-1**.

ITEM 0 WELCOME

- 0.1** Member Secretary extended a warm welcome to the members and invitees present in the meeting and enquired about their well-being. Member secretary informed that Shri Ajaya Gupta, E-in-C Doordarshan, Chairperson LITD 07 has taken VRS and now Shri N. Thiyagarajan is Chairperson of LITD 07. The committee appreciated the guidance provided by Shri Ajaya Gupta as chairperson of LITD 07 and welcomed Shri N. Thiyagarajan as Chairperson of LITD 07.
- 0.2** Shri N. Thiyagarajan, Chairperson LITD 07 welcomed all the participants and requested for active participation of all participants.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

- 1.1** Member Secretary informed that the minutes of the fifteenth meeting of the Artificial Intelligence sectional committee held on 08 August 2022 were circulated on 16 August 2022 and Mr. Rajiv Khattar had provided some observations as given in Annex-1. The committee considered the minutes and Mr. Rajiv Khattar's observations. The committee confirmed the minutes without any changes.

ITEM 2 REVIEW OF SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE LITD 07

2.1 The committee considered the following scope of LITD 7:

“To prepare Indian Standards including safety requirements relating to:

- a) Audio, video and multimedia systems and equipment
- b) Acoustics, electroacoustics and related instruments.”

Liasion: ISO TC 43 / SC 1 - Noise - Observer (O); IEC TC 29 - Electroacoustics - Principle (P) ; IEC TC 108 - Safety of electronic equipment within the field of audio/video, information technology and communication technology - Principle (P) ; IEC TC 100 - Audio, video and multimedia systems and equipment - Principle (P)

Mr. Alok Narang Conveyed that India is O-member of ISO/TC 43 ‘Acoustics’ and considering the relevance of these standards (specifically related to calibration) we should consider P-membership in ISO/TC 43. Member Secretary informed about the obligations of O and P membership of ISO/IEC committees. Member Secretary also informed that LITD 7 is National Mirror Committee of ISO/TC 42 SC 1 and CED 12 is NMC of ISO/TC 42 SC 2 ‘Building acoustics’. The committee deliberated and decided as follows:

- a) Members were requested to suggest relevant stakeholders for ISO/TC 43. Based on the commitment and participation of stakeholders to fulfill the obligations of P-membership, the committee may consider P-membership in ISO/TC 43 in subsequent meetings.
- b) Member Secretary to find out further details related to the existing NMC of ISO/TC 43, if any.

2.2 The committee considered the composition of Audio, Video and Multimedia Systems and Equipment; Sectional Committee, LITD 07, its panels along with participation status as given in Annex-2 of the agenda. Member Secretary informed that strict directions have come from BIS management that non-participation or no contributions to the drafts in two consecutive meetings would lead to withdrawal of membership from the committee. Member Secretary informed that non-participating organizations were approached for revising their nominations and to confirm their interest to contribute to standardization activity. The committee deliberated and decided as follows:

- a) Recommended withdrawal of Electronics Corporation of India Limited.
- b) To once again approach WPC
- c) To approach all organization where participation is 0/3 or 1/3.

Dell representative informed that alternate member from Dell (Mr. Lali Mehta) is no longer associated with Dell so his name should be removed.

MAIT representative informed that Col. Jafri is no longer associated with MAIT so his name should be removed. They also informed that Col Suhail Zaidi has joined as Director General, MAIT and MAIT would provide revised nominations.

Member Secretary informed that he is receiving delivery failure for Shri Manish Dev Nautiyal (alternate

member of 3M India limited) and based on his discussion with Mr. Bidyut, 3M would provide revised nominations so accordingly Shri Manish Dev Nautiyal (Alternate member of 3M India limited) should be removed.

Member Secretary informed that he is receiving delivery failure for Ms. Monica Uniyal (CEAMA representative in LITD 07/P2) so she should be removed and he has already requested CEAMA to provide revised nominations.

2.3 The committee considered the co-option requests as mentioned at item 2.3 of the agenda. Member Secretary informed that for each person requesting co-option they shall provide a letter from their respective organizations authorizing them to represent their organization for standardization work.

Member secretary informed that s.no 1, 2,3,4(TWD Sun Acoustic Pvt Ltd, QIMA Ltd, Dahua Technology India Pvt Ltd., IndiaNatus India Private ltd) has not provided organization's authorization letter and s.no 5,6,7 and 8 (React Laboratories, Reliable Analytical Labs Pvt Ltd, TUV Rheinland Pvt. Ltd., Gurgaon, C-PRAV Indian Certification services) have provided authorization letter. The committee deliberated and following points were conveyed by the members:

- i. Laboratories should have experts and facilities related to Audio, Video, Acoustics and Multimedia. There should also be concrete contributions so that these are beneficial to the standards.
- ii. Considering the number of laboratories, Laboratories should consider participating in the committee work through associations.
- iii. C-PRAV is consultancy group and not suitable for LITD 7.

The committee deliberated and decided as follows:

- a) To add all future co-option requests as invitee to relevant panel for few meetings and based on their contributions, they may be subsequently made member of the respective panel.
- b) All member/organizations who requested for co-option shall be included in the additional mailing list
- c) To not co-opt C-PRAV Indian Certification services.
- d) To not co-opt any of the other member/organization at this stage.
- e) To request members intending to represent TWD Sun Acoustic Pvt Ltd, QIMA Ltd, Dahua Technology India Pvt Ltd. and IndiaNatus India Private ltd to provide authorization letter from their respective organizations.
- f) To request laboratories intending to be members to confirm availabilities of experts and facilities related to Audio, Video, Acoustics and Multimedia as well as to consider representing through association.

ITEM 3 DRAFT STANDARDS UNDER WIDE CIRCULATION

3.1 The committee considered the information as given at item 3.1 of the agenda and decided as follows:

S.No	Documents Number	Title	Last date for Comments	Decision/Remarks
1.	LITD/07/22081 IS/IEC 63002:2021 (Identical To: IEC	Interoperability Specifications and Communication	09 May 2023	The committee finalized the document for

	63002:2021)	Method for External Power Supplies used with Computing and Consumer Electronics Devices		publication.
2.	LITD/07/22082 IS/IEC 62680-4-1: 2022 (Identical To: IEC 62680-4-1:2022)	Universal Serial Bus Interfaces for Data and Power - Part 4-1: Universal Serial Bus 4 Specification	10 May 2023	The committee finalized the document for publication.
3.	LITD/07/22609 IS 10467: 2023 IEC TR 60268-13:1998 Revision of IS 10467: 1983 (Identical To: IEC/TR 60268-13:1998)	Sound System Equipment Listening Tests on Loudspeakers (First Revision)	06 August 2023	The committee deliberated in detail and finalized the document for publication without any changes.
4.	LITD/07/22583 IS/IEC 60958-3: 2021 Revision of IS/IEC 60958 : PART 3: 2006 (Identical To: IEC 60958-3 : 2021)	Digital Audio Interface - Part 3 Consumer Applications Second Revision	01 August 2023	The committee finalized the document for publication.
5.	LITD/07/22587 IS 14231 : Part 9: 2002 Amd-1	Cabled distribution systems for television and sound signals: Part 9 interfaces of cabled distribution systems for digitally modulated signals Amendment - 1	04 August 2023	The committee finalized the document for publication.

6.	LITD/07/22612 IS/IEC 60958-4-2: 2016 Superseding IS/IEC 60958-4: 2003 (Identical To: IEC 60958-4-2:2016)	Digital Audio Interface - Part 4: Professional Applications - Section 2: Metadata and Subcode	08 August 2023	The committee finalized the document for publication.
7.	LITD/07/22588 IS 15596 (Part 7):2023 IEC 60268-7:2020 Revision of IS 15596 : Part 7: 2016 (Identical To: IEC 60268-7:2020)	Sound System Equipment Part 7: Headphones and Earphones Second Revision	04 August 2023	The committee finalized the document for publication.
8.	LITD/07/22614 IS/IEC 60958-4-4: 2016 Superseding IS/IEC 60958-4: 2003 (Identical To: IEC 60958-4-4:2016)	Digital Audio Interface - Part 4: Professional Applications - Section 4: Physical and Electrical Parameters	08 August 2023	As there was lack of clarity regarding input of Mr. Abhishek Agarwal so it was decided that member secretary would discuss with Mr. Abhishek Agarwal. In case of no objections by Mr. Abhishek Agarwal the document shall be assumed as finalized for publication otherwise inputs would be shared with committee for further decision.
9.	LITD/07/22718 IS 2264 : 2023 Revision of IS 2264: 1963 (Identical To: ISO 266 : 1997)	Acoustics - Preferred frequencies (First Revision)	21 August 2023	The committee finalized the document for publication.

10.	LITD/07/22721 IS 8159 : 2023 IEC 60263 : 2020 Revision of IS 8159: 1993 (Identical To: IEC 60263 : 2020)	Scales and Sizes for Plotting Frequency Characteristics and Polar Diagrams(Second Revision)	20 August 2023	The committee finalized the document for publication.
11.	LITD/07/22719 IS 7709 : 2023 IEC 60500 : 2017 Revision of IS 7709: 1975 (Identical To: IEC 60500 : 2017)	Underwater acoustics - Hydrophones - Properties of hydrophones in the frequency range 1 Hz to 500 kHz (First Revision)	20 August 2023	Member Secretary informed that IEC 60500 pertains to IEC TC 87 'Ultrasonics'. The committee considered the information and it was decided to identify stakeholders related to this area and also finalized the document for publication.
12.	LITD/07/22716 IS 14231 (Part 3):2023 IEC 60728-3: 2017 Revision of IS 14231 : Part 3: 1995 (Identical To: IEC 60728-3: 2017)	Cable Networks for Television Signals Sound Signals and Interactive Services - Part 3: Active Wideband Equipment for Cable Networks	25 August 2023	The committee finalized the document for publication.
13.	LITD/07/22723 IS 14231 (Part 7):2023 IEC 60728-12: 2017 Revision of IS 14231 : Part 7: 1999 (Identical To: IEC 60728-12: 2017)	Cable Networks for Television Signals Sound Signals and Interactive Services - Part 7: Electromagnetic Compatibility of Systems First Revision	25 August 2023	The committee finalized the document for publication.

14.	LITD/07/22801 IS 3720 : 2023 IEC 60118-12 : 1996 Revision of IS 3720: 1983 (Identical To: IEC 60118-12 : 1996)	Hearing aids - Dimensions of electrical connector systems (Second Revision)	01 September 2023	The committee finalized the document for publication.
15.	LITD/07/22837 IS/ISO 1996- 1:2016 Superseding IS 9989:1981 (Identical To: ISO 1996- 1:2016)	Acoustics Description Measurement and Assessment of Environmental Noise Part 1: Basic Quantities and Assessment Procedures	03 September 2023	The committee finalized the document for publication.
16.	LITD/07/22836 IS/ISO 1996- 2:2017 Superseding IS 9989:1981 (Identical To: ISO 1996- 2:2017)	Acoustics Description Measurement and Assessment of Environmental Noise Part 2: Determination of Sound Pressure Levels	04 September 2023	The committee finalized the document for publication.
17.	LITD/07/22855 IS/IEC 60461:2010 Superseding IS 12429 (Part 1 and Part 2):1988 (Identical To: IEC 60461:2010)	Time and control code	04 September 2023	The committee finalized the document for publication.
18.	LITD/07/22738 IS 14231 : Part 1: 2023 Revision of IS 14231 : Part 1:1995 (Identical To: IEC 60728-1: 2014)	Cable networks for television signals sound signals and interactive services Part 1: System performance of forward paths First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for

				further decision.
19.	LITD/07/23062 IS/IEC 60318-6: 2007 Superseding IS 11449: 1985 (Identical To: IEC 60318-6:2007)	Electroacoustics Simulators of Human Head and Ear Part 6: Mechanical Coupler for The Measurement of Bone Vibrators First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
20.	LITD/07/23066 IS 12193 (Part 1):2023 Revision of IS 12193 : Part 1: 1989 (Identical To: IEC 60315-1: 1997)	Methods of measurement on radio receivers for various classes of emission Part 1: General considerations and methods of measurement including audio-frequency measurements First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
21.	LITD/07/23060 IS/IEC 60118-9: 2019 Superseding IS 10776 (Part 4):1984 (Identical To: IEC 60118-9:2019)	Electroacoustics - Hearing Aids - Part 9: Methods of Measurement of The Performance Characteristics of Bone Conduction Hearing Aids First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
22.	LITD/07/23064 IS/ISO 389-3:2016 Superseding IS 11024: 1984	Acoustics Reference Zero for The Calibration of Audiometric	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document

	(Identical To: ISO 389- 3:2016)	Equipment Part 3: Reference Equivalent Threshold Vibratory Force Levels For Pure Tones and Bone Vibrators		shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
23. .	LITD/07/23067 IS 8152:2023 Revision of S 8152: 1976 (Identical To: IEC 60386:1988)	Method of measurement of speed fluctuations in sound recording and reproducing equipment First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
24. .	LITD/07/22717 IS 14231 (Part 4):2023 IEC 60728-4: 2007 Revision of IS 14231 : Part 4: 1995 (Identical To: IEC 60728-4: 2007)	Cable Networks for Television Signals Sound Signals and Interactive Services -Part 4: Passive Wideband Equipment for Coaxial Cable Networks First Revision	25 August 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
25. .	LITD/07/22831 IS 8146 : 2023 Revision of IS 8146: 1976 (Identical To: ISO 3382-1 : 2009)	Acoustics - Measurement of Room Acoustic Parameters- Performance Spaces (First Revision)	03 September 2023	The committee recommended to transfer IS 8146:1976 to CED 12 as corresponding ISO standard pertains to ISO/TC 43/SC 2.
26. .	LITD/07/22720 IS 14231 (Part 5):2023 IEC 60728-5: 2015 Revision of IS 14231 : Part 5: 1995	Cable Networks for Television Signals Sound Signals and Interactive Services - Part 5: Headend Equipment First	25 August 2023	The committee finalized the document for publication.

	(Identical To: IEC 60728-5: 2015)	Revision		
27.	LITD/07/23065 IS 12193 (Part 2) :2023 Revision of IS 12193 : Part 2: 1987 (Identical To: IEC 60315-3: 1999)	Methods of measurement on radio receivers for various classes of emission Part 3: Receivers for amplitude- modulated sound- broadcasting emissions First Revision	07 Oct 2023	The committee decided that in case of no comments by 7 th Oct the document shall be assumed as finalized for publication and in case of receipt of inputs these would be considered by the committee for further decision.
28.	LITD/07/20467 Revision of IS 16127: 2013	Behind the Ear BTE Hearing Aids Digital Specification	Being issued in WC	The committee noted the information, please also refer item 7.1
29.	LITD/07/20466 Revision of IS 10775: 1984	Specification for Body Level Hearing Aids	Being issued in WC	The committee noted the information, please also refer item 7.1

Member secretary informed that during last meeting, members were requested to specifically convey their inputs for each and every document even if their input is 'no comment'. He informed that BECIL has provided inputs for most of the documents and the same is expected from other members as well. He also requested members to provide inputs for wide circulation documents only through BIS standards portal.

ITEM 4 PROGRAM OF WORK

4.1 The committee considered the information as given at item 4.1 of the agenda and decided as follows:

Standard	Title	Remarks	Decision
IS/IEC 62087-3 : 2015	Audio video and related equipment Determination of power consumption Part 3: Television sets	Replaced by IEC 62087- 3:2023 RLV	It was decided to issue revised IEC standard as draft Indian standard in wide circulation for a period of two months.
IS/IEC 60118-0 : 2015	Electroacoustics Hearing Aids Part 0 Measurement of the Performance Characteristics of Hearing Aids	Revised by IEC 60118-0:2022	
IS 14231 (Part 10) : 2003	Cable distribution system for television and sound	Revised by IEC 60728-6:2011	

IEC 60728-6	signals: Part 10 optical equipment		
IS/IEC 62368-1 : 2018	Audio / Video, Information and Communication Technology Equipment Part 1 Safety Requirements (First Revision)	<p>a) Revised by IEC 62368-1:2023 RLV,</p> <p>b) Also due for review in 2023-24 ,please refer Annex-5</p>	<p>Member secretary informed that committee had taken a decision (through correspondence over email) to issue FDIS 62368-1 in WC however by the time FDIS was being issued in WC, the revised standard has been published by IEC.</p> <p>It was decided to issue revised draft Indian standard in wide circulation at the earliest. The committee reaffirmed the standard till publication of revised Indian standard.</p>
IS/IEC 62623 : 2012	Desktop and Notebook Computers - Measurement of Energy Consumption	<p>a) Revised by IEC 62623:2022 RLV</p> <p>b) Also due for review in 2023-24 ,please refer Annex-5</p>	<p>The committee decided to issue revised IEC standard as draft Indian standard in wide circulation for a period of two months.</p> <p>The committee also reaffirmed the standard till publication of revised Indian standard.</p>
IS 13420 (Part 1) : 2002	Cabled distribution systems for television and sound signals: Part 1 methods of measurement	Considering revision of IS 14231 (Part 1) has been taken up as LITD 07 (22738), both IS 13420	The committee recommended withdrawal of IS 13420 (Part 1)

	and system performance (Second Revision)	(Part 1) and IS 14231 (Part 1) are based on IEC 60728-1.	and decided that revision of IS 14231 (part 1) would supersede IS 13420 (Part 1).
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Members also requested BIS to consider finding out the safety standard applicable in EU for CE certification.

ITEM 5 REVIEW OF PUBLISHED INDIAN STANDARDS

5.1 Member Secretary informed that in accordance with BIS procedures, Indian Standards which are in existence for more than 3 years are to be reviewed for reaffirmation/revision/withdrawal. Member secretary also again explained the Action taken Research process being taken up for reviewing the standards.

Member Secretary sought active support of members for review exercise. He informed that review exercise is expected to be initiated one year in advance so that by the time standard is due for review, the committee could take decision and initiate required actions. Member Secretary informed that he would share the list of standards due for review during April 2023-March 2024 for allocation of such standards.

The committee considered the list of standards to be reviewed during April 2023-March 2024 and status of action taken as given in Annex-3 of the agenda. The committee also considered the list of standards which were to be reviewed during April 2022-March 2023 however, these have been only reaffirmed as given in Annex-4 of the agenda.

The committee deliberated and decisions are given in **Annex-2 and Annex-3**.

ITEM 6 PROPOSALS FOR DEVELOPMENT/REVISION OF STANDARDS

6.1 DESIGN CRITERIA OF PA SYSTEM & TECHNICAL SPECIFICATION FOR PUBLIC ADDRESS (PA) SYSTEM

The committee considered the information and decided that further action would be decided based on the outcome of meeting of BIS officials with AAI officials to discuss their proposal and requirements.

6.2 CODE OF PRACTICE FOR INSTALLATION OF DTH (DIRECT TO HOME) AND CABLE TV

The committee considered the information and requested LITD 7/Panel 2 to plan meeting at the earliest.

6.3 OPERATIONAL PRACTICES FOR MAINTAINING CONSISTENT BROADCAST LOUDNESS LEVELS

The committee considered the information. Brief background related to the proposal was provided. Dolby representatives also informed following:

- a) USA has come out with mandatory requirement related to loudness level.

- b) Most of the EU countries have provided recommendation for the audio/loudness level of the channels.
- c) Australia, New Zealand, USA, Japan and European Union are following similar requirements.

The committee deliberated in detail and it was decided to circulate all the documents (including USA and EU documents informed during today's meeting) related to proposal for:

- i. specific inputs of the members.
- ii. suggestions for stakeholders (along with contact details) to be approached for consideration as member of proposed new panel.
- iii. suggestion for convener of the proposed new panel.

It was also decided that in case of no inputs w.r.t point ii) and iii), the proposal would not be discussed in subsequent meetings.

6.4 INTEROPERABILITY OF SET TOP BOXES

6.4.1 The committee considered the information as given at item 6.4.1 of the agenda. Ministry of Information and Broadcasting representative informed that they would get an update and provide status to the committee.

6.4.2 The committee considered the information as given at item 6.4.2 of the agenda. Members were requested to provide inputs at the earliest so that panel may start discussions to finalize the changes (except interoperability aspect which would be discussed only after response is received from Ministry of I&B) required in the standards.

The committee also decided that considering the mandating of IS 18112, member Secretary would draft amendment for IS 16337: 2015 'Integrated digital terrestrial, satellite, cable television (iDTV)– Specification' for inputs of the committee. It was decided that amendment would be restricted to make mandatory requirement of DVB-T 2 as optional in IS 16337.

6.4.3 TATA Play Query related to use of wideband tuners for STBs (300 – 2350 MHz)

The committee considered the information as given at item 6.4.3 of the agenda and decided to once again request WPC (Wireless planning commission), DoT to confirm if usage of Input frequency for STB (as per IS 15954 :2012, Digital set top box for MPEG- 4 DTH services – Specification) below 950 MHz and if usage of Input frequency above 2150 Mhz is allowed in India.

6.5 Request for formulation of BIS Standard for built-in Satellite Tuner in place of Analog TV tuner in all TV sets/LCD/LED Display sets in India

6.5.1 The committee considered the information as given at item 6.5.1 and 6.5.2 of the agenda. Member Secretary informed that MeitY has issued CRO order as per that certification process should be similar to the present scheme for IS 616. He requested members to approach CMD-3 and Registration department of BIS for queries related to certification process/guidelines.

6.5.2 The committee deliberated in detail w.r.t Input Voltage range mentioned in IS 18112:2022 and Samsung's suggestion for it. It was conveyed that 110V is not followed in India so 110 V in input voltage would lead to increase in cost.

It was informed that even before and after publication of IS 18112, there many TVs manufactured and sold in India with Input voltage range (110V-240v) so cost should not be a factor here. It was also informed that IS 694 is the related standard for power cord/cables for rated voltage upto and including 450/750V so current input voltage range mentioned in IS 18112 has no adverse impact on the power cord.

It was also informed that CEAMA has written to MeitY related to this aspect. Member Secretary informed he has not received any such information and only input received related to IS 18112 is the one from Samsung which is being discussed by the committee.

There were some suggestions to mention voltage range as 170V-240V instead of 110V-240V. It was again emphasized that specifications are intended for TVs which shall be working and functional as per Indian Voltage conditions. It was also agreed that if it seems that the requirement as mentioned in the standard is ambiguous then necessary modification may be made to remove the ambiguity however this change would not be constituted as technical change/revision.

Further as only two manufactures had provided inputs so all members, specifically Industry associations were requested to consider and provide their specific input as well as recommendation for Input Voltage Range with in one week. It was decided that based on the inputs received by 18th September and other related standards for Electrical and Electronic products, final decision would be taken in consultation with the LITD 7/Panel 5 Convener and LITD 7 Chairperson.

Samsung further conveyed that in other countries during certification process, test suites indicating step by step procedure using standard transport streams are provided to TV manufacturers to test TV. Doordarshan representative requested them to provide concrete inputs and suggestions for further consideration. It was also informed that there are standard transport streams for DVB-S/S2 for satellite communication part, for compression aspect respective ISO/IEC standards are there for standard transport streams and Manufacturers of modulator/demodulators also provide standard transport streams for testing.

TV Manufactures were requested to provide their suggestions w.r.t test suites as well along with inputs on voltage range for further decision.

ITEM 7 REVIEW OF STANDARDS ON HEARING AIDS

7.1 The committee considered the information as given at item 7 of the agenda. Mr. Alok Narang suggested to review draft standards once again in line with revised version of IEC 60118-0 i.e. IEC 60118-0:2022. He also informed that IEC 60118-7 has been incorporated as clause 10 in IEC 60118-0. The committee considered the information and Mr. Alok Narang was requested to review the draft standard in line with his inputs. It was decided that based on the inputs of Mr. Alok Narang draft standards should be issued in wide circulation by end of September 2023.

ITEM 8 INTERNATIONAL STANDARDIZATION ACTIVITIES

8.1 MEETINGS OF IEC TC 29, IEC TC 100 and IEC TC 108

- a) The committee considered the information as given at item 8.1 of the agenda. Members were requested to consider and inform the meetings in which they would be participating so as to accordingly finalize the delegation for the respective meetings.
- b) Member secretary also informed that under IEC Young professional programme ,Mr. Karan Narang's nomination has been approved for participation from BIS.
- c) It was also informed that IEC TC 29 has requested to consider hosting the TC29 meetings in India during October / November 2025. Members were requested to consider and provide their views so that we can decide and convey India's response to IEC TC 29.

8.2 Documents of IEC TC 29, TC 100 and TC 108 due for voting

The committee considered the information as given at item 8.2 of the agenda. All members were requested to specifically provide inputs w.r.t all documents due for voting.

8.3 Standards published and under development by IEC TC 29, IEC TC 100 and IEC TC 108

- a) The committee considered the information as given at item 8.3 of the agenda. Members, specifically Industry associations were requested to consider the information and provide their inputs so that LITD 7 may identify the relevant priority areas for Indian context and increase our participation in IEC TC 29, TC 100 and TC 108.
- b) Member were also requested to consider the list of standards published by IEC TC 29, TC 100, TC 108 and corresponding Indian standard so as to inform the standards which could be considered for adoption as Indian standards.

ITEM 9 STANDARDIZATION PROCESS REFORMS

- 9.1 The committee considered the information as given at item 9.1 of the agenda. Member secretary provided brief update on each standardization process reforms. Presentation is given in **Annex -4**.

ITEM 10 INFORMATION RELATED TO IMPLEMENTATION OF STANDARDS

- 10.1 The committee noted the information as given at item 10.1 of the agenda.

ITEM 11 MANAKONLINE

- 11.1 The committee noted the information as given at item 11.1 of the agenda.

ITEM 12 DATE AND PLACE FOR THE NEXT MEETING

- 12.1 It was decided to hold next meeting tentatively on 10th January 2024. Final date and place would be decided in consultation with the chairperson.

ITEM 13 ANY OTHER BUSINESS

- 13.1 There being no other business to be discussed, meeting ended with vote of thanks to chairperson and all the participants.