## **BUREAU OF INDIAN STANDARDS**

#### **AGENDA**

Name of the Committee	No. of Meeting	Date and Time	Day	VENUE
Automotive Electrical Equipment and Instruments Sectional Committee, TED	(32nd)	27.9.2024 10:30 AM onward		COEP Technological University, Pune

**CHAIRMAN:** Shri G R M Rao (VRDE, DRDO)

**HEAD (TED):** Shri A P D Dwivedi **MEMBER SECRETARY:** August Dubey

## ITEM 0 WELCOME AND INTRODUCTORY REMARKS

**0.1** Welcome Remarks by Head (TED)

**0.2** Opening Remarks by the Chairman

#### ITEM 1 CONFIRMATION OF THE MINUTES OF LAST MEETING

The minutes of the last meeting (31<sup>st</sup> meeting) of Sectional Committee TED 11, held on 3<sup>rd</sup> May 2024 in virtual mode, was circulated vide BIS Portal 30.05.2024. Members were requested to send their comments on recording of the proceeding. We have not received any comments regarding decision of the committee till date.

The Committee may Confirm the minutes of the meeting.

## ITEM 2 COMPOSITION OF THE SECTIONAL COMMITTEE

- **2.1** As a matter of policy, the sectional committees are to be reconstituted every three years. The policy guidelines are:
  - a) Efforts shall be made to keep the strength of committee optimum;
  - b) Withdraw the nomination of the organizations who are continuing for long periods but are neither attending the committee meetings for the last three or more years norcontributing through correspondence/ mail;

- c) Co-opt the new members and organizations whose inclusion will be helpful in the committee's work or which are capable of contributing in emerging new technologies and new areas of work;
- d) Strength of the manufacturers should be restricted to  $1/3^{\rm rd}$  of the total strength of the technical committee; and
- e) NGOs where ever possible should also be co-opted.

## The committee may please note.

- **2.2** The following directions have been received from the Competent Authority of the Bureau forreviewing the composition of the Sectional Committee:
  - a) Major Government purchasing organizations are to be given representation in the committees wherever applicable.
  - b) The continuation of committee membership, including those represented in individual capacity, is to be considered on the basis of past attendance and contribution.
  - c) In case representative of the concerned organization is not attending the meeting regularly or not contributing even by correspondence, the organization may be requested to substitute their member.
  - d) Efforts should be made to include representative of different product segments as per the scope of the committee.
  - e) Increased involvement of premier institutions like IIT, CSIR labs, IISc and other R & D organizations to be worked out.
  - f) Efforts should be made to include young professionals and scientist in the Committee.

The committee may please note.

**2.3** Based on above guidelines the committee may review the present composition of the Committee given in **ANNEXURE 1.** The list shows the status of committee members as manufacturer, consumer, R&D etc. and also attendance of the members in the last three consecutive meeting.

#### 2.4. CO-OPTION IN TED 11 COMMITTEE

**2.4.1 In 31**<sup>st</sup> **meeting, committee** approved the nomination of Feim Industry, TKM and UNO Minda. It requested ACMA to provide the contact detail of *LUCAS and Indicative Instrument*, and TMA to provide the contact details of *John Deere and Force Motors*, to BIS, for necessary follow-up. It also decided that if updated nominations are received from these organizations, their co-option shall be considered as approved and it shall be updated suitably on BIS portal.

#### **Present Status:**

Nomination of Feim, TKM and UNO Minda have been updated on portal. Nomination received from ACMA (for Indicative Instrument) has also been updated on the portal.

Further E-mail id for LUCAS, John Deere and Force motor was received from ACMA and John deere, and a mail was sent to them on 19 September 2024, to seek their interest for getting co-opted in TED 11 committee, However, no reply is received till date.

#### Committee may please deliberate.

**2.4.2** In 31<sup>st</sup> meeting, committee decided to co-opt following organization, status is as follows:

Sl No	Nomination	Organization		Status
1	Shri Subrat Kumar	Ola Technologies Limited		Nomination Updated on BIS Portal
2	Shri K N Hemanth Kumar	International Association Mumbai	Copper India,	Nomination updated on BIS Portal

**2.4.2** Following new, co-option request is received for TED 11 Committee:

Sl	Nomination	Organization	Remarks
No			
1)	Shri Aarul Jain	Synopsys India Pvt Ltd	Details circulated vide BIS portal on 13.9.2024
2)	Shri Shiva Kiran A R	Bosch Limited, Bengaluru	Details circulated vide BIS portal on 13.9.2024
3)	Shri Vijaykumar Vaghasiya	Qualcomm India Private Limited, Bengaluru	Details circulated vide BIS portal on 13.9.2024
4)	Shri Sujeet Gaikwad	Hella India Automotive Private Limited, Gurugram	Details circulated vide BIS portal on 13.9.2024

## Committee may please deliberate.

**2.4.3** In 31st, meeting Committee deliberated and rejected the Co-option request of APTIV. It mentioned that as ACMA is already a member in TED 11 committee and APTIV is member of ACMA, it may contribute in standardization process through ACMA.

In reference to above, following mail is received from ACMA:

As discussed with you, We (ACMA) would like to put up the request of M/S Aptive to register Mr. Chagari (profile given in the attached letter) with BIS (TED11) for his involvement in ISO 26263 as a Member of ACMA.

Though their earlier request to get included in the TED11 SC was not approved, we once again request you to reconsider, if possible. Else, please consider their request to get registered in ISO 26263, as representative from ACMA.

## Committee may please deliberate.

**2.4** The Committee may suggest means for identification and involvement of talent available in the country related to the subject dealt by the committee and methodology to involve them in the proceedings of the Committee. The Committee may also suggest means and ways to enhance the participation of the members in Committee work through participation in the meeting or sending comments on the documents.

## 2.6 Panel constituted under TED 11 are as follows:

Composition	Remarks
Panel convenor- Shri Gururaj Ravi	Scope: To deliberate on All Horn
<b>Composition</b> -Representative from	related standards and comments
ARAI	received thereon and provide its
CIRT	recommendation to the committee.
ICAT	
SIAM	
vehicle manufacturers in TED 11	
committee	
ACMA	
Convenor- From Hero Moto corp	<b>Scope:</b> To deliberate on comments
<b>Composition-</b> Experts from	received on draft document
ACMA	TED/11/23215
SIAM	
ARAI	
ICAT	
	Scope:
<u> </u>	To prepare the draft documents
	based on AIS 189 and AIS 190,
	and submit to BIS within 1 month
MSIL	after publication of AIS 189 and
Danel ganganan DIC may decide in	AIS 190. Panel 4- For ISO TC 22 SC 32
_	Panel 4- For ISO TC 22 SC 32
	Panel 5- For 150 TC 22 5C 35
•	Deviewing the ICO standard and
	Reviewing the ISO standard and
	segregating them in following
	category:
<u> </u>	
BAL	
	Panel convenor- Shri Gururaj Ravi Composition-Representative from ARAI CIRT ICAT SIAM vehicle manufacturers in TED 11 committee ACMA Convenor- From Hero Moto corp Composition-Experts from ACMA SIAM ARAI ICAT  Convenor: From Renault Members: Experts from LEAR MAHINDRA MSIL  Panel convenor: BIS may decide in Consultation with Chair Members: Experts from HMSI MSIL UNO Minda Hero Motocorp Lear

		ISO Standards which can be directly
Panel 5	Convenor: From Renault	adopted as Indian Standards without any change.
	Members: Experts from MSIL HERO MOTOCORP  (Others may submit their nomination for panel within 14 days)	ISO standards which can be modified technically as per our country's needs and then adopted as Indian Standards. ISO Standards which are not at all suitable for our country needs and may not be adopted at all.

ARAI vide mail dt. 25.7.2024, recommended to consider testing agencies nominations in all the panels of TED 11.

Committee may deliberate.

## ITEM 3 ISSUES ARISING OUT OF ACTIONS OF THE PREVIOUS MEETINGS

Sr No	Subject	Decision taken in previous meeting	Present Status
1.	Indian Standard based on AIS 198, AIS 199 and AIS 200	32 <sup>nd</sup> Meeting Status:  ARAI may please update.	Draft document, based on AIS 89, AIS 90 and AIS 91 have been dropped from the BIS
	110 200		Portal.
		32 <sup>nd</sup> Meeting Decision:	AIS 198, AIS 199, and AIS 200 could not be found on ARAI
	'Retro-reflective	Ms Jyoti from ARAI informed that AIS 198, AIS 199 and AIS 200 have been	webpage.
	markings — Retro-	finalized by AISC and adopted by	Committee may please
	reflective markings for	CMVR-TSC during its last meeting,	deliberate
	vehicles, theirtrailers and	however the minutes of CMVR-TSC	
	semi-trailers —	meeting was awaited.	
	Specification' (Adoption		
	of AIS 090:2019)	Committee deliberated and decided to	
		drop the documents for formulation of	
		Indian Standards based on AIS 89, AIS 90 and AIS 91.	
		Further, the committee deliberated and	
		decided to formulate Indian Standards	
		based on AIS 198, AIS 199, and AIS 200.	
		It decided that once these standards are	
		published, BIS may request the committee	
		members to provide suitable drafts for	
		formulating Indian standards based on	

2.	TED 11 (15885) W 'Head light switches for automobiles – Specification (First revision of IS4061)	above standard, or seek their assistance in preparing the drafts.  Committee further decided that drafts prepared as above, would be issued into WC of 60 days.  Status in 31 <sup>st</sup> meeting: Correction as per decision of the 30th meeting has been done in F-Draft and it has been processed for further action.  Committee may please note.  Decision in 31 <sup>st</sup> meeting:  Committee noted the information.	Document has been published as IS 4061: 2024.  Committee may please note.
3.	TED 11 (20542) Self-Cancelling Direction Indicator Switch for Automotive Vehicles – Specification (First Revision of IS 4815)	Status in 31 <sup>st</sup> meeting:  Comments received on TED 11 (20542)W are attached at Annexure 2.  Committee may please deliberate.  Decision in 31 <sup>st</sup> meeting:  Committee deferred the subject for further deliberation in next meeting	Comments received on TED 11 (20542)W are attached at <b>ANNEXURE 2.</b> Status is same as in 31st meeting.  Committee may please deliberate.
4.	TED 11 (20737) Push Button Type Switch for Automotive vehicles – Specification (First Revision of IS 9521)	Status in 31st meeting:  Comments received on draft document are:  MSIL: Not CMVR item, ACMA to further comment.  LEAR: No Comment/No exprtise  However, it is observed that following standards referred in TED 11 (20737) have been withdrawn: IS 9000 (Part 2/ Sec 4): 1977 IS 9000 (Part 3/ Sec 5): 1977 IS 9000 (Part 12): 1981 Committee may please deliberate.	Status is same as in 31 <sup>st</sup> meeting. Committee may please deliberate.

		Decision in 31 <sup>st</sup> meeting:  Committee deferred the subject for further deliberation in next meeting.	
		denocration in next meeting.	
5.	TED 11 (22534) Recommendation for Polarity of Earth Connections and Marking of Electrical Equipment for Automobiles (First Revision of IS 7471)	Status in 31st meeting:  On Draft document, following comment is received MSIL (date: 23.11.2023):  Not CMVR item, ACMA to further comment  Draft document is attached at Annexure 3.  Committee may please deliberate.  Decision in 31st meeting:  Committee deferred the subject for further deliberation in next meeting	Draft document is attached at ANNEXURE 3.  Committee may please deliberate.
6.	TED/11/23335 Revision of IS 1884: 1993 AUTOMOTIVE VEHICLES - AUDIBLE WARNING DEVICES SPECIFICATION	Status in 31 <sup>st</sup> meeting:  For Revision of IS 1884: 1993  Panel 1 meeting was held on 17/4/2024.  Minutes of the panel 1 meeting and ppt shared by MSIL during panel meeting are attached at Annexure 4.	Subject was discussed in Panel 1 meeting. Minutes of the Panel 1 is attached at <b>ANNEXURE 4</b> Committee may please deliberate
7.	IS: 15794 2008 Automotive Vehicles - Horn installation requirements	Comments received from members are attached at <b>Annexure 5</b> .  Committee may please deliberate  For IS 15796: 2008  MSIL has reviewed the standard and with consent of Panel 1 members they briefed the review report to the Panel 1 members in its meeting held on 17.4.2024.	

9.	TED/11/23215 Revision of IS 4050: 1976	Status in 30 <sup>th</sup> meeting:  P Draft was circulated on 25.07.2023	Minutes of Panel 2 meeting is attached at <b>ANNEXURE 6.</b>
0	TED/11/22215	Decision in 31 <sup>st</sup> meeting:  Committee deferred the subject for deliberation in next meeting	Minutes of Devel 2 marking in
	IN AUTOMOBILES SPECIFICATION	Clarification from UNO Minda received via mail dated 25.4.24 is also attached at <b>Annexure 6.</b> Committee may please deliberate.	Status is same as in 31 <sup>st</sup> meeting.  Committee may please deliberate.
8.	TED/11/23075 Revision of IS 9433: 1980 PIANO KEY TYPE SWITCHES FOR USE	Status in 31st meeting:  Comments received from Members before the 30th meeting are attached at Annexure 6.	Comments received from Members before the 30th meeting, and clarification from UNO Minda are attached at ANNEXURE 5.
		For deliberation held on review document, please refer the minutes of panel 1 meeting attached at <b>Annexure 4.</b> Comments received from M/s BAL is attached at <b>Annexure 5.</b> Committee may please deliberate. <b>Decision in 31</b> <sup>st</sup> meeting:  Shri Rajkumar Dwivedi from MSIL briefed the minutes of the panel 1 meeting. He further mentioned that based on input received, Panel convenor Shri Gururaj Ravi would convene the next panel meeting shortly.  Committee modified the scope of Panel (pl refer item 2.6).  Committee deliberated and requested panel to deliberate in detail, and provide its final recommendation before next committee meeting. It mentioned that for other components we are trying to align our standards with UNECE, in this case also we may think same, however panel to deliberate in detail taking account every aspect.	

	HORN SWITCHES FOR AUTOMOBILES METHODS OF TESTS	Last Date for Comment: 24.09.2023 Comments received from committee members are attached at Annexure-5 Committee may please deliberate and decide to issue the draft into WC.  Decision in 30th meeting:  Mr. Varun from Heromotocorp briefed his comments. Committee deliberated and constituted a Panel (P2). Committee requested P2 to deliberate on comment received and submit its recommendation to the BIS by 15 January 2023.  Status in 31st meeting: Panel 2 meeting was held on 21.2.24. Minutes of Panel 2 meeting is attached at Annexure 7. Committee may please deliberate.  Decision in 31st meeting: Committee deferred the subject for deliberation in next meeting	Status is same as in 31st meeting.  Committee may please deliberate.
10.	TED 11 (15614)  'Rear marking plates — Rear marking plates for heavy and long vehicles' (Adoption of AIS 089:2019)	Status in 31 <sup>st</sup> meeting: Please refer Sl No 1 of ITEM 3.  Decision in 31 <sup>st</sup> meeting: Please refer Sl No 1 of Item 3.	Draft document TED 11 (15614) has been dropped.  For detail, please refer Sl No 1 of Item 3.

		<u></u>	<u></u>
11.	<b>TED 11 (16959) P</b> 'Road	Status in 31st meeting:	
	vehicles – Fuse links Part		Draft document TED 11
	3: Fuse-links with tabs	While preparing the draft document to	(16959) F is attached at
	blade type, Type C	process it to publication, following points	ANNEXURE 7.
	Medium Type E High	are observed:	
	Current Type F miniature		Status is same as in 31 <sup>st</sup>
	type N and type P sub-	1. In table 1-	meeting.
	miniature		
		Type E is mentioned in Column 2 and	Committee may please
		Column 3	deliberate.
		2. In Table 2-	
		For operating time resting test, IR or 1.10	
		<i>IR a) 1.35 IR a) 1.60 IR 2.00 IR</i> are	
		mentioned and in Table 4 test current	
		mentioned are IR or 1.10 IR a) 1.35 IR a)	
		1.60 IR 2.00 IR, 3.5 IR and 6 IR	
		However in ISO 8823-3, In Tables	
		corresponding to Table 2 and Table 4, for	
		operating time resting test and test current	
		IR or 1.10 IR 1.35 IR 1.60 IR 2.00 IR,	
		3.50 IR, 6.00 IR are mentioned.	
		Draft document TED 11 (16959)F	
		is attached at Annexure 8.	
		Committee may please deliberate.	
		Decision in 31 <sup>st</sup> meeting:	
		Committee deferred the subject for	
		deliberation in next meeting	
		denocration in next incetting	
12.			Status is same as in 31 <sup>st</sup>
12.	IS/ISO 6722-1 : 2011	Status in 31 <sup>st</sup> meeting:	meeting.
	15/150 0/22-1 . 2011	Status in 31 meeting.	meeting.
	Road vehicles 60 V	ISO 6722-1 : 2011 and ISO 6722-2: 2013	Committee may please
	and 600 V single-core	have been withdrawn.	deliberate.
	cables Part 1:	Committee may please deliberate.	donocium.
	Dimensions test methods	Committee may pieuse democrate.	
	and requirements for		
	copper conductor cables	D i adet :	
	copper conductor cables	Decision in 31 <sup>st</sup> meeting:	
	IS/ISO 6722-2 : 2013	Committee deliberated and deferred the	
	15/150 0/22-2 . 2013	subject for deliberation in next meeting	

	Road vehicles - 60 V and 600 V single - Core cables: Part 2 dimensions, test methods and requirements for aluminium conductor cables (First Revision)		
13.	IS 13931 (Part 1): 1993 Automotive vehicles - Stoplight switches: Part 1 specification  IS 13931 (Part 2): 1993 Automotive vehicles - stoplight switches: Part 2 Methods of Test	In 30 <sup>th</sup> meeting, IS 13931 Part 1 and Part 2 were allocated to ACMA for review.  Status in 31 <sup>st</sup> meeting:  Review report was received from ACMA vide mail dated 20.2.2024.  Review reports have been circulated through BIS portal and they can be accessed by clicking on followings:  Review report IS 13931 Part 1 Review report IS 13931 Part 2  Committee may please deliberate.  Decision in 31 <sup>st</sup> meeting:  Committee deferred the subject for deliberation in next meeting	No comments are received on review documents.  Committee may please deliberate.
14.	IS 8339: 1993 Automotive vehicles - Reflex reflectors - Specification	Status in 31st meeting:  Review report was received from ACMA vide mail dated 19.2.2024.  Review report has been circulated through BIS portal and it can be accessed by clicking on followings:  Review report of IS 8339: 1993  Comment from ARAI vide mail dated 23.4.24:	Comments has been received from MSIL vide BIS Portal:  MSIL is aligned with TED 11 Recommendations as subject is adequately covered in AIS 200  Committee may please deliberate.

		this standard is older version and currently not using in automotive application since 2010. At this juncture applicable standard is AIS:57 Rev1 and soon it will be replaced by AIS:200.  Considering the fact, you may withdraw this standard.  Committee may please deliberate.	
		Decision in 31st meeting:  BAL also expressed their agreement with ARAI and MSIL comment. Committee deferred the subject for deliberation in next meeting	
15.	IS 4063: 1982  Specification for fuse box for automobiles (First Revision)	Status in 31 <sup>st</sup> meeting:  Review was done by BIS officer Shri Niraj Kumar.  Review report has been circulated and it can be accessed by clicking on the followings:  Review report of IS 4063: 1982  Committee may please deliberate.  Decision in 31 <sup>st</sup> meeting:  Committee deferred the subject for deliberation in next meeting	Following comments are received vide BIS Portal: From Lear: No expertise on the specified topic  From MSIL: Component level standard. Need ACMA to comment  Committee may please deliberate.
16.	IS 7998: 1986 Specification for contact breakers for two wheelers, three wheelers and stationary spark	Status in 31 <sup>st</sup> meeting: Review was done by BIS officer Shri Nishant Parasar.	No comments are received on review document.  Committee may please deliberate.

	ignition engines (First Revision)	Review report has been circulated and it can be accessed by clicking on the followings:  Review report of IS 7998: 1986 Committee may please deliberate.  Decision in 31st meeting: Committee deferred the subject for deliberation in next meeting	
17.	IS 7827: Part 3: Sec 2: 1985  Specification for electrical wind screen wiper: Part 3 wiper arms and blades section 2 wiper blades	Status in 31 <sup>st</sup> meeting: Review was done by BIS officer Shri Mitrasen Verma  Review report has been circulated and it can be accessed by clicking on the following:  Review report of IS 7827 Part 3 Sec 2: 1985 Committee may please deliberate.  Decision in 31 <sup>st</sup> meeting: Committee deferred the subject for deliberation in next meeting	Following comments are received vide BIS Portal: From Lear: No expertise on the specified topic  From MSIL: Component level standard. Need ACMA to comment  Committee may please deliberate.
18.	IS 2081: 1998  Automotive vehicles - Taper terminal cable connectors for batteries - Specification (Second Revision)	Status in 31st meeting:  Review was done by BIS officer Shri Hariom Meena  Review report has been circulated and it can be accessed by clicking on the followings:  Review report of IS 2081: 1998  Committee may please deliberate.  Decision in 31st meeting:	Following comments are received vide BIS Portal:  From Lear: Replace IS 2: 1960 Rules for rounding off numerical values (revised)' with latest IS 2: 2022 Rules for rounding off numerical values (Second Revision) From MSIL: Component level standard. Need ACMA to comment  Committee may please deliberate.

		Committee deferred the subject for deliberation in next meeting	
19.	Standards on Cyber Security	Decision in 31 <sup>st</sup> meeting: On Lear proposal, Shri Kiran from Lear presented a presentation (attached). Shri Vijay mentioned that AIS 189 and AIS 190 have been approved by CMVR for notification and ISO 21434 is referred in it also.	National foreword for adoption of ISO 21434 has been issued into WC.  Doc No: TED/11/26207  WC Date: 24.7.2024  Comments Received: I agree
		Shri Sumit from MSIL mentioned that subject AIS 189 and AIS 190 was discussed in last meeting of TED 28. Shri Vijay from Renault mentioned that since	with the Draft (from- MSIL, LEAR, Ministry of MSME)
		cybersecurity affects the electrical components directly, (electrical component under the Scope of TED 11) it should come under TED 11. It was	Draft document based on AIS 189 and AIS 190 are received from Renault.
		decided that HTED will take-up the subject for deliberation with TEDC Chair. Committee deliberated and decided to formulate Indian Standards based on AIS 189 and AIS 190.	Draft documents received from Renault have been shared with members vide mail dated 18.9.2024.
		Committee constituted a panel P-3 and requested it to provide the draft document based on AIS 189 and AIS 190. It authorized BIS to issue the draft documents into WC of 60 days once the	Regarding the subject, pertaining to TED 11 and TED 28, it will be taken up in next meeting of TEDC.
		drafts are received from Renault.	Committee may please deliberate.
		Further it also decided to adopt ISO 21434 identically under single numbering system and requested BIS to issue the National Foreword into WC of 60 days.	
20.	IS 1606: 1979 Specification for automobile lamps (Second Revision)	Status in 26 <sup>th</sup> meeting: The work to review the Indian Standard was assigned to Shri Virendra Sachdev M/s Lumax and Shri P N Bhagwan M/s ISLE. Inputs received from Shri P N Bhagwan vide mail dated 12th August 2021. In the last meeting Shri PN Bhagwan	Draft document was shared by Shri P N Bhagwan through mail. However, document has been sent back to SHRI P N Bhagwan for providing input on BIS query.

explained that in his document, variety of bulbs which have either been deleted or are temporarily included in AIS 034 (Part 1), are not included. The committee after deliberations advised member secretary to explore if bulbs of 6 V can be included in the draft standard.

Preliminary draft is under preparation.
The Chairman requested Shri Bhagwan to prepare document based on AIS 034 (Part 2) and AIS 130 and forward them to member secretary.

## **Decision in 26<sup>th</sup> meeting:**

The committee advised member secretary to prepare and circulate Preliminary draft at the earliest. Preliminary draft to be circulated among committee members for comments for 60 days as a priority III document.

#### **Decision in 31st Meeting:**

In 31st meeting, Shri P N Bhawgan mentioned that he had completed the review and shared the draft with BIS.

Committee requested member secretary to check the minutes of previous meetings and take necessary action.

Draft document sent back to Shri P N Bhagwan, was shared vide mail dated 18.9.2024.

Updated draft document is awaited.

Member may please provide the input regarding inclusion of 6V blubs.

Committee may please deliberate.

# ITEM 4 RESEARCH PROJECTS TO BE TAKEN UP FOR INCLUSION OF EMPIRICALDATA AND INSIGHTS

**Decision in 31**<sup>st</sup> **Meeting:** Committee deliberated and requested members to submit, comment if any within 2 weeks. It further decided that if no comments are received, ToR attached in agenda shall be considered as approved, however if any comment is received, it shall be taken with Chairperson for consideration and approval.

#### **Present Status:**

No comment was received on ToR in specified timeline, it was shared with internal Screening Committee. Final ToR was hosted on BIS portal on **21.6.2024.** 

As per R&D guideline, Two Experts from the Sectional should be part of Research Evaluation

Committee. These experts shall be nominated by the Sectional Committee and the nominated members shall give a declaration to the effect that there is no conflict of interest with respect to the project.

Committee may please deliberate.

## ITEM 5 COMMENTS/CLARIFICATION ON INDIAN STANDARDS

**5.1 MSIL Comment on IS 13427** (vide mail dated 14.5.2024)

Please find the attached IS 13437-2012 standard considering this ISO 3559 standard for reference collected from BIS.

Both ISO and IS standards are withdrawn and do not have a replacement standard.



We can quote this ISO/IS as reference to the Test agency for our approval

#### **Observation by BIS:**

Excerpt from minutes of 24<sup>th</sup> meeting of TED 11:The committee noted the recommendations of Shri G V George and inputs provided by the member secretary in the agenda. The committee further noted that no standard is available on the subject. After deliberations the committee decided to withdraw the Indian Standard. The committee requested member secretary to take further action on the issue.

Further in 28<sup>th</sup> meeting of TEDC, (28 October 2021), division council approved it.

Committee may deliberate.

**5.2 Comment on IS 16325 from Mahindra and Mahindra** (vide BIS Portal)

SI. No.	Clause/Sub- clause/ Para/Table/Fig. No. commented	Type of Comments (General/ Editorial/ Technical )	Proposed change	Justification
01	NA	Editorial	Reference figures: Figure-1, 2 & 3 referred in Annex-A of the IS 16325-2019 are missing from the standard. These figures can be added from the base referred standard AIS-045.	NA

## Committee may please deliberate.

#### ITEM 6 REVIEW OF PUBLISHED STANDARDS

**6.1** The Sectional Committee may review all the standards formulated by it and identify the standards that are not required by the industry due to change in technology, obsolescence, etc, for withdrawal and the standards that need to be amalgamated or to be revised. During review, the committee may decide either to **reaffirm**, **revise** or to **withdraw** the standards based on latest technology available on the subject at the time of review

**6.2** List of Indian Standards which were due for review in 2023-24 and 2024-25, and allocated to Committee members are as below.

For Sl No 1 to 20, in 31st Meeting, committee noted the information and requested ACMA and SIAM to expedite the review and submit the report to BIS before next meeting. Shri Sumit from MSIL mentioned that for IS 15802, IS 15804 and IS 7827 Part 3 Sec 1, MSIL has received the request from SIAM for reviewing and leading the Panel on these subjects, so it may be allocated to MSIL. Committee deliberated and allocated review of standards (IS 15802, IS 15804 and IS 7827 Part 3 Sec 1) to MSIL, provided confirmation is received to BIS from SIAM.

For allocation of standards IS 15802, IS 15804 and IS 7827 Part 3 Sec 1, no confirmation is received from SIAM. However, vide mail dated 6 May 2024, SIAM has requested, to appoint Mr Gururaj Ravi, Vice President (Regulatory Affairs and Policy), Maruti Suzuki, as the Panel Convenor for standards (IS 15802, IS 15804 and IS 7827 Part 3 Sec 1), pertaining to Windscreen Wiping.

SI. No.	IS No.	Title	Remarks	Committee Decision Iin 30 <sup>th</sup>	Status
				meeting	
1.		Automotive vehicles - Electric horns - Specification (Third Revision)	Based on UNECE Regulation		Already taken under Sl No 6 of ITEM 3.
2.	IS 2081: 1998	Automotive vehicles - Taper terminal cable connectors for batteries - Specification (Second Revision)	5403:1977 Cable	ACMA	INPUT AWAITED

2	IS 8339: 1993	1.1	1	Based on UNESC	Allocated to	Please refer Sl. 15 of
3	13 8339. 1993	Automotive vehicl Reflex	ex	regulation 3.	Allocated to ACMA	
		reflec	ctors			
		- Specification (First Revi	icion)			
4	IS 11086: 2013	Speedometer/odometer	131011)	Based on DIN 75532-	Allocated to	INPUT AWAITED
		Special matter, additional		1:1976 Transmission of	ACMA	
		systems		rotarymotion; Types of connection to gears,		
				Intermediate gears,		
		for		flexible drive shafts and		
				equipment		
		automotiveapplication -				
5	IS 12508: 2013	Specification (First Revi ELECTRIC TACHOME			Allocated to	INPUT AWAITED
5	13 12308. 2013	ELECTRIC TACHOME FOR AUTOMOTIVE	EIEK		Anocated to ACMA	INI OI AWAITED
		VEHICLES —				
		SPECIFICATION				
6	IS 13602: 2013		les		Allocated to	INPUT AWAITED
		Instrui			ACMA	
		system	ns			
		Temperature gau	iges			
		mechanical type	_			
		-				
7	IS 13646: 2018	Specification (First Revi		SAE J 1810 : 2010	Allogated to	INPUT AWAITED
/	13 13040. 2018		hicles	'Electrical indicating		INICIAWAIIED
		Instrument systems - Pregauges electrical / elec		systemspecification'.		
			(First			
		Revision)	(1 1130			
8	IS 13654: 1993		les-		Allocated to	INPUT AWAITED
		Instrument system	ns-		ACMA	
		Electrical speedometer				
		performance requiremen	nts			
9	IS 13931 (Part	Automotive vehicles -				Please refer Sl. No 14 ITEM 3
	1): 1993	Stoplight switches: Par	rt 1		ACMA	14 11 EWI 3
10	IC 12021 (Dont	specification			Allogoted to	
10.	IS 13931 (Part 2): 1993	Automotive vehicles -			Allocated to ACMA	
		stoplight switches: Part methods of test	τ 2			
11	IS 15364: 2003	Automotive vehicles - S	Snark	ISO 2704 : 1998 'Road	Allocated to	INPUT AWAITED
	15 1330 1. 2003	- Plugs M10 x 1 withfla			SIAM	
		seating	]	plugswith flat seating and		
		6		their cylinder head		
				housing*		
				ISO 14508 : 1997 'Road vehicles — Spark-plug —		
				Terminals'		

12	IS 15796: 2008	- Horn installatio	Based on AIS 014 - 2001 Automotive vehicles - Horninstallation requirement	SIAM	INPUT AWAITED from SIAM. However, MSIL has reviewed the standard, please
		nrequirements			refer S1 No 7 of ITEM 3
<mark>12</mark>	IS 2077 : 2014	Automotive vehicles - Electric relays - Specification			Input received from ACMA is attached
		(Third Revision)			at Annexure 13
13		Automotive vehicles - Windscreen wiping system for 4 wheelers other than ml category of vehicles - Requirements		Allocated to SIAM	
14	IS 15804: 2008	Automotive vehicles - Windscreen wiping and washing system for ml category of vehicles - Requirements		Allocated to SIAM	IS 15804, and IS
15	IS 7827 (Part 3/Sec 1): 1993	Automotive vehicles electrical wind screen wipers: Part 3 wiper arms and blades section 1 wiper arms - Specification		Allocated to SIAM	
16	IS 1062 : 2014 ISO 11565:2006	Road vehicles - Spark - Plugs - Test methods and requirements (Third Revision)		Committee allocated the review of these standards to ACMA	INPUT AWAITED
17		Automotive vehicles - Oil and air assisted pressure gauges - Specification (First Revision)			
18	IS 13599 : 2014	Automotive vehicles - Instrument systems - Temperature gauges - Electrical and Electronic type - Specification (First Revision)			
19	IS 14141 : 1994	Automotive vehicles - Electrical windshield washing systems - Performance requirements			
20		Automotive vehicles - Flashers for direction indicators - Specification (Second Revision)			
21	IS 5577 : 2015	Automotive vehicles - Ammeters - Specification			

		(Third Revision)		
22	2020	Automotive Vehicles - Advance-Warning Triangle - Specification		

Committee may please deliberate.

**6.3** List of Pre 2000 standards is attached at **ANNEXURE 9.** Committee may please deliberate and archive the applicable standards as per Reforms measure guideline.

Policy of Archiving has been adopted to help the SCs prioritise the review of standards. The standards, which cannot be withdrawn, but have lost relevance due to diminishing use in the wake of onset of new products, processes or test methods, can be archived, and a mention to this effect shall be made against that standard in the database of the Published standards. This will not only enable the SCs to focus on more important standards, but will also keep the window open for the stakeholders to point out if the review is required.

## ITEM 7 NEW WORK ITEM PROPOSAL

- **7.1** No new work item proposal is received after 31<sup>st</sup> meeting.
- **7.2** Dr Om Krishan (from Meity) had shared a list of standards being followed for certification. It was taken up in the 14<sup>th</sup> meeting of TED 27 and committee suggested that ISO 16750 Parts 2, 3, and 4, relate to electrical components in automobiles, thus these subjects may be taken up for further deliberation in TED 11 committee.

ISO 16750-1:2023	Road vehicles — Environmental conditions and testing for
	electrical and electronic equipment — Part 1: General
ISO 16750-2:2023	Road vehicles — Environmental conditions and testing for
	electrical and electronic equipment Part 2: Electrical loads
ISO 16750-3:2023	
	Road vehicles — Environmental conditions and testing for
	electrical and electronic equipment Part 3: Mechanical loads

Committee may please deliberate.

**7.3** In 31<sup>st</sup> meeting, committee had decided the following subjects for deliberation in next meeting.

Sl	Subject	Proposer	About Subject	Remarks
No				

1	Backup Alarm	Roots Industries India Private Limited, Coimbatore	Detailed proposal was shared with members vide BIS portal dated 19.11.2023.	Comment from MSIL: Backup Alarm standard (Reverse Warning Device) already exists in CMVR. Hence, the proposal may be dropped.
2	DC to DC Voltage converters		DC to DC Voltage converters are widely being used in EV. BIS standard can be developed to frame the product requirements	As DC to DC subject, is mainly used in EV, the subject has been taken up deliberation in TED 27 (Electric and Hybrid Vehicles Sectional Committee)
3	Mobile phone Chargers / USB Charger		USB Chargers are widely used in Automotive & other applications BIS standard can be developed to frame the product requirements	M/s Roots may share a brief presentation elaborating the subjects, relevant stakeholders, necessity of standardization and other aspects, if any.

## Committee may please deliberate.

## ITEM 8 INTERNATIONAL ACTIVITIES

**8.1** BIS membership of ISO Technical Committees and subcommittees relevant to scope of Automotive electrical Equipment and instruments Sectional Committee, TED 11, are given below:

Sl No.	ISO Committee/	SubTITLE	Type of
	Committee		membership
1	ISO/ TC 22	Road vehicles	P
2	ISO/ TC 22/ SC 32	Electrical and electronic components and general syste aspects	
3	ISO/TC 22/ SC 35	Lighting and visibility	Р

## The committee may please note.

**8.2** The list of working groups/ panels with their titles under technical committee ISO/ TC 22 and its subcommittees ISO/ TC 22/SC 32 and ISO/ TC 22/SC 35 are given at **ANNEXURE 10.** Committee may please note

#### **8.3 ISO Ballots**

Committee may deliberate on comments received from LEAR on ISO/SAE CD PAS. Comments and documents have been circulated with members vide mail dated 30.03.2024 and 30.4.2024.

#### 8.4 ISO Standards

**8.4.1** The list of ISO standards published by ISO/ TC 22 and its sub-committees and ISO TC 22 SC 32 and ISO TC 22 SC 35 can be accessed through following link:

- 1. <a href="https://www.iso.org/committee/46706/x/catalogue/p/1/u/0/w/0/d/0">https://www.iso.org/committee/46706/x/catalogue/p/1/u/0/w/0/d/0</a>
- 2. <a href="https://www.iso.org/committee/5383636/x/catalogue/p/1/u/0/w/0/d/0">https://www.iso.org/committee/5383636/x/catalogue/p/1/u/0/w/0/d/0</a>
- 3. <a href="https://www.iso.org/committee/5383897/x/catalogue/p/1/u/0/w/0/d/0">https://www.iso.org/committee/5383897/x/catalogue/p/1/u/0/w/0/d/0</a>

The committee may review the ISO standards and categorize them as per following broad categories:

- a. ISO Standards which can be directly adopted as Indian Standards without any change.
- b. ISO standards which can be modified technically as per our country's needs and then adopted as Indian Standards.
- c. ISO Standards which are not at all suitable for our country needs and may not be adopted at all.

The committee may please consider and decide adoption of ISO standards, if any.

**8.4.2** In 31<sup>st</sup> meeting, the committee had constituted Panel 4 and Panel 5. Panel 5 meeting was held on 3.9.2024, 2<sup>nd</sup> meeting of Panel 5 is scheduled on 26.9.2024. Minutes of 1<sup>st</sup> meeting of Panel 5 is attached at **ANNEXURE 11**.

Committee may please deliberate.

#### 8.5 Participation in WG

Following Members have been nominated in various Working groups of ISO by TED11:

ISO WGs	Titles	Nominated Members
ISO/TC 22/SC 32/WG 8	Functional safety	Shri Tushar Yadav
		Shri Kiran Deosarkar
ISO/TC 22/SC 32/WG 11	Cybersecurity	Shri Tushar Yadav
		Shri Kiran Deosarkar
ISO/TC 22/SC 32/WG 4	Automotive electrical cables	Shri Rajeev Malhotra

Nominated experts may please brief the status of development under ISO WGs.

## **8.6 IR PORTAL-** Brief by Member Secretary

**8.7** Guideline received from PNC (Planning and Coordination Department) for adoption of ISO/IEC standards and designation of experts for ISO/IEC projects, are attached at **ANNEXURE 12.** Committee may please note

#### ITEM 9 PROGRAM OF WORK

PoW of TED 11 committee, can be accessed through following link:

https://www.services.bis.gov.in/php/BIS 2.0/bisconnect/pow details

Committee may please note the status of documents in TED 11.

#### ITEM 10 ROAD MAP OF STANDARDIZATION WORK OF TED 11

Committee may deliberate and formulate the roadmap of standardization work of Sectional Committee Automotive Electrical Equipment and Instruments- TED 11.

## ITEM 11 STANDARDS NOTIFIED UNDER CMVR

List of standards notified under CMVR and pertinent to TED 11 committee are as follows:

IS No	Title	
	Mounting dimensions of head lights for automobiles	
8415 : 1977	Withdrawn	
	Automotive vehicles - Horn installation requirements	
15796 : 2008		
1884	Automotive vehicles - Electric horns - Specification (Third Revision)	
15802	Automotive vehicles - Windscreen wiping system for 4 wheelers other than ml category of vehicles - Requirements	
15804	Automotive vehicles - Windscreen wiping and washing system for ml category of vehicles - Requirements	

Committee may deliberate and update the list (if any standard missing).

## ITEM 12 ANALYTICAL REPORTS/ADVANCED DASHBOARD

Committee may note the features of advance dashboard

#### ITEM 13 DATE FOR THE NEXT MEETING

<b>Meeting Number</b>	Meeting Date	Mode
33 <sup>rd</sup>	19 February	Virtual

As per annual calendar prepared by committee during  $31^{st}$  meeting,  $33^{rd}$  meeting of TED 11 would be held as above. Committee may please note

#### **ITEM 14 ANY OTHER BUSINESS**