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## BUREAU OF INDIAN STANDARDS

### Minutes

Name of the Committee	No. of Meeting	Date and Time	Day	Venue
<b>AUTOMOTIVE ELECTRICAL EQUIPMENT AND INSTRUMENTS SECTIONAL COMMITTEE, TED 11</b>	<b>31st Meeting</b>	<b>3 MAY 2024 (10 30 AM)</b>	<b>FRIDAY</b>	<b>VIRTUAL</b>  <a href="#">(CLICK HERE TO JOIN)</a>

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

HEAD (TED): Shri Deepak Aggarwal

MEMBER SECRETARY: August Dubey

Participants:

SL NO.	NAME OF MEMBER	NAME OF ORGANIZATION
1)	Shri G.R.M. Rao ( <b>Chairman</b> )	Vehicle Research and Development Establishment, Ahmednagar
2)	Shri Faustino V	Ashok Leyland Limited, Chennai
3)	Shri Jai Singh	Ashok Leyland Limited, Chennai
4)	Shri Ritik Kumar	Aisin Automotive
5)	Shri Sanjay Tank	Automotive Component Manufactures Association of India, New Delhi
6)	Smt. Jyoti Kirve	Automotive Research Association of India, Pune
7)	Shri Abhay Kumar	Bajaj Auto Limited, Pune
8)	Shri Arvind Kumbhar	Bajaj Auto Limited, Pune
9)	Shri Nishant Parasar	BIS
10)	Shri Santosh Y Desai	Central Institute of Road Transport, Pune
11)	Shri Veemit Negi	CNH India
12)	Smt. Devyani	CNH India
13)	Shri Raju Agarwal	Castmaster Mobitec India Private Limited, Faridabad
14)	Shri Satya Pal Lakhtakia	Directorate General of Quality Assurance, New Delhi
15)	Smt. Alka Sharma	Denso International India Private Limited, Gurugram
16)	Shri Ajay Kumar	Honda Motorcycle and Scooter India Private Limited, Gurgaon
17)	Shri Arpan Shukla	Honda Motorcycle and Scooter India Private Limited, Gurgaon

SL NO.	NAME OF MEMBER	NAME OF ORGANIZATION
18)	Smt. Apoorva Tripathi	Hero Motocorp Limited, New Delhi
19)	Smt. Garima	Hero Motocorp Limited, New Delhi
20)	Shri Shiva Arun Teja	Hero Motocorp Limited, New Delhi
21)	Shri Varun Sharma	Hero Motocorp Limited, New Delhi
22)	Shri Yash Yadav	Hero Motocorp Limited, New Delhi
23)	Shri Muthu Kumar	Honda Cars India Research and Development Limited, Noida
24)	Ms. Neha Gaba	Honda Cars India Research and Development Limited, Noida
25)	Ms Sonali Chaprana	Honda Cars India Research and Development Limited, Noida
26)	Shri Vipin Sharma	Honda Motorcycle and Scooter India Private Limited, Gurgaon
27)	Shri Satyanarayana Gupta Bolisetty	Hyundai Motor India Engineering Private Limited, Hyderabad
28)	Shri Hemanth Kumar	International Copper Association India (ICA India)
29)	Dr. Prakash Barjatia	Indian Society of Lighting Engineers, New Delhi
30)	Shri Udit Kaul	International Centre for Automotive Technology, Manesar
31)	Shri Mohit Kansal	India Yamaha Motor Private Limited, Noida
32)	Shri Navneet Kaushik	India Yamaha Motor Private Limited, Noida
33)	Shri Kiran Deosarkar	Lear India Engineering LLP, Pune
34)	Shri L Kandan	Ministry of Micro, Small and Medium Enterprises, New Delhi
35)	Shri Manoj Prabagar	Maruti Suzuki India Limited, Gurugram
36)	Shri Prashant Patil	Mahindra and Mahindra Limited, Mumbai
37)	Ms. Pushpanjali	Mahindra and Mahindra Limited, Mumbai
38)	Shri Rahul Singh	Malhotra Cables Private Limited, New Delhi
39)	Shri Raj Kr Dwivedi	Maruti Suzuki India Limited, Gurugram
40)	Shri Sonu Samantaray	Maruti Suzuki India Limited, Gurugram
41)	Shri Sumit Kumar	Maruti Suzuki India Limited, Gurugram
42)	Shri Rohit Meena	Maruti Suzuki India Limited, Gurugram
43)	Ms. Buvaneshwari M	Maruti Suzuki India Limited, Gurugram
44)	Shri Sakthivelan	Mahindra and Mahindra Limited, Mumbai
45)	Shri Shailesh	Mahindra and Mahindra Limited, Mumbai
46)	Shri P.N.Bhagwan	Patodia Glass Industries Ltd. (PGIL)
47)	Shri Girish	Renault Nissan Technology and Business Centre India Private Limited, Chennai
48)	Shri Vivekraj S	Renault India Private Limited, Mumbai
49)	Shri Vijay Dinakaran	Renault India Private Limited, Mumbai
50)	Ms Pragalpha	Renault India Private Limited, Mumbai
51)	Shri Sabarivasan K N	Renault India Private Limited, Mumbai
52)	Shri Jebin Jowhar	Renault India Private Limited, Mumbai
53)	Shri Selvaraj R	Roots Industries India Limited, Coimbatore
54)	Shri Kartike	Society of Indian Automobile Manufacturers (SIAM), Delhi
55)	Shri Ramakrishna Ahire	Suzuki Motorcycle India Private Limited, Gurugram
56)	Shri Avinash Khot	Suzuki Motorcycle India Private Limited, Gurugram
57)	Shri Saily Smarth	Skoda Auto Volkswagen India Private Limited
58)	Shri Deepesh Mutke	Skoda Auto Volkswagen India Private Limited

SL NO.	NAME OF MEMBER	NAME OF ORGANIZATION
59)	Shri Gowrishankar	Tata Motors Limited, Pune
60)	Shri Pradeep Shinde	Tractor and Mechanization Association, New Delhi
61)	Shri Kiran TN	Toyota Kirloskar Motor Private Limited, Bidadi
62)	Shri Rahul	Toyota Kirloskar Motor Private Limited, Bidadi
63)	Shri Patil	Vehicles Research and Development Establishment (VRDE)
64)	Shri Rutuja Raverkar	Uno Minda
65)	Shri M M Soni	Uno Mindarika Private Limited

## **Item 0 GENERAL**

### **0.1 WELCOME BY MEMBER SECRETARY**

Member Secretary welcomed the participants to the meeting.

### **0.2 Welcome remarks by HTED:**

H(TED) extended a warm welcome to all participants. He emphasized the importance of active involvement of stakeholders in National Standardization. He requested members to actively contribute in National as well as in international standardization. He also requested committee to deliberate on standards formulated by ISO regarding their need-based adoptions. He further requested Panels to expedite their work and complete tasks ahead of schedule, enabling the committee to deliberate in detail and finalize the documents promptly.

### **0.3 OPENING REMARKS BY THE CHAIRMAN**

The chairperson expressed a warm welcome to all participants. He appreciated the work being done by TED 11 committee members and requested the members and panel convenors to fully support the noble cause of standardization for the Nation. He further requested members to complete the assigned task in time bound manner, which would expedite the standardization process and would also improve quality of standards.

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

Committee deliberated on Shri Sanjay tank comments and decided as follows:

- 1.1 It decided that as IS 1884 has already been reviewed, no further review may not be required. Further as it is under discussion in panel, comments if any may be submitted directly to BIS and Panel 1.
- 1.2 Committee also accepted Shri Sanjay Tank comment on scope of Panel 2.

It approved the minutes of 30<sup>th</sup> meeting with correction as above.

## **ITEM 2 COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1** The committee noted the information given in the agenda.

**2.2** The committee noted the information given in the agenda.

**2.3** The committee noted the information given in the agend and 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.

Further committee observed that Honda is already in the committee. It decided that a fresh letter shall be written by BIS to MoRTH and Volvo Bus for their co-option in TED 11 committee.

**2.4** Committee deliberated and decided as follows:

Sl No	Organization	Decision
1	Ola Electric Technologies Private Limited	Committee deliberated and accepted the request
2	International Copper Association India, Mumbai	Committee deliberated and accepted the request
3	Shri Channabasappa Chagari	Member Secretary mentioned that Shri Channabasappa Chagari has clarified over mail dt. 2.5.24 that the request is from organization (APTIV).  Committee deliberated and rejected the request. 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.

**2.5** Committee noted the information given in the agenda.

**2.6** Committee also deliberated on panel composition and modified the detail of existing panels and constituted 3 more panels as below:

Panel No.	Composition	Remarks
Panel 1	<b>Panel convenor-</b> Shri Gururaj Ravi <b>Composition-</b> Representative from <ul style="list-style-type: none"> <li>• ARAI</li> <li>• CIRT</li> <li>• ICAT</li> <li>• SIAM</li> <li>• vehicle manufacturers in TED 11 committee</li> <li>• ACMA</li> </ul>	<b>Scope:</b> To deliberate on All Horn related standards and comments received thereon and provide its recommendation to the committee.
Panel 2	<b>Convenor-</b> From Hero Moto corp <b>Composition-</b> Experts from <ul style="list-style-type: none"> <li>• ACMA</li> <li>• SIAM</li> <li>• ARAI</li> <li>• ICAT</li> </ul>	<b>Scope:</b> To deliberate on comments received on draft document TED/11/23215
Panel 3	<b>Convenor:</b> From Renault <b>Members:</b> Experts from <ul style="list-style-type: none"> <li>• LEAR</li> <li>• MAHINDRA</li> <li>• MSIL</li> </ul>	<b>Scope:</b> To prepare the draft documents based on AIS 189 and AIS 190, and submit to BIS within 1 month after publication of AIS 189 and AIS 200.
Panel 4	<b>Panel convenor:</b> BIS may decide in Consultation with Chair <b>Members:</b> Experts from	Panel 4- For ISO TC 22 SC 32 Panel 5- For ISO TC 22 SC 35

	<ul style="list-style-type: none"> <li>• HMSI</li> <li>• MSIL</li> <li>• UNO Minda</li> <li>• Hero Motocorp</li> <li>• Lear</li> <li>• BAL</li> </ul>	<p>Reviewing the ISO standard and segregating them in following category:</p> <p>a. ISO Standards which can be directly adopted as Indian Standards without any change.</p> <p>b. ISO standards which can be modified technically as per our country's needs and then adopted as Indian Standards.</p> <p>c. ISO Standards which are not at all suitable for our country needs and may not be adopted at all.</p>
Panel 5	<p><b>Convenor:</b> From Renault</p> <p><b>Members:</b> Experts from</p> <ul style="list-style-type: none"> <li>• MSIL</li> <li>• HERO MOTOCORP</li> </ul> <p>(Others may submit their nomination for panel within 14 days)</p>	

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

Sr No		Decision taken in previous meeting	Present Status	Committee Decision
1.	<b>TED 11 (15516) W</b> ‘Retro-reflective markings — Retro-reflective markings for vehicles, their trailers and semi-	<p><b>Status in 29<sup>th</sup> meeting:</b> No further action could be taken on draft TED 11 (15516); Committee may please deliberate</p> <p><b>30<sup>th</sup> meeting Decision:</b> Shri Jaisingh from Ashok Leyland mentioned that draft TED 11 (15516)W was aligned with AIS 090 Rev 1: 2019 requirements. Now reflective tape requirements are covered in AIS 200</p>	ARAI may please update.	Ms Jyoti from ARAI informed that AIS 198, AIS 199 and AIS 200 have been finalized by AISC and adopted by CMVR-TSC during its last meeting, however the minutes of CMVR-TSC meeting was awaited.

	trailers — Specification’ (Adoption of AIS 090:2019)	<p>“Retro reflecting devices” which is aligned with latest European SLR regulation. Hence, we suggest to put TED 11 (15516) W document on hold till the time AIS 200 is adopted by AISC / CMVR TSC. After adoption, TED 11 (15516) W can be aligned with AIS 200 requirements.</p> <p>Mr Jebin from RNTBC mentioned that MoRTH did not notify AIS 90 and has decided to go with SLR requirements.</p> <p>Dr. Shamsundra mentioned that AIS 198, AIS 199 and AIS 200 are almost finalized and their adoption is expected in next AISC meeting, and its next meeting is expected in December 2023.</p> <p>Committee requested ARAI to inform the adoption of these standards by AISC at earliest, and further decided to deliberate in the next meeting for withdrawal/revision of the draft document TED 11 (15516).</p>		<p>Committee deliberated and decided to drop the documents for formulation of Indian Standards based on AIS 89, AIS 90 and AIS 91.</p> <p>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 above standard, or seek their assistance in preparing the drafts.</p> <p>Committee further decided that drafts prepared as above, would be issued into WC of 60 days.</p>
2.	<p><b>TED 11 (15885) W</b> ‘Head light switches for automobiles – Specification (First revision of IS 4061)</p>	<p><b>Status in 30<sup>th</sup> meeting:</b></p> <p>Draft document TED 11(15885) was processed for publication.</p> <p><b>Query raise by Publication dept:</b></p> <p>1) Kindly check where figures are referred in the document and provide reference. 2) <b>Clause 7.8:</b> kindly confirm if this can be written as ‘10 Hz to 55 Hz to 10 Hz’</p> <p><b>Draft document is attached at Annexure-2</b></p> <p>Committee may please deliberate.</p> <p><b>Decision in 30<sup>th</sup> meeting:</b></p> <p>Committee deliberated on queries raised by publication department and decided to delete the figures from the document as they are not required due to modification in clause 5. For clause 7.8, it agrees that yes it can be written as ‘10 Hz to 55 Hz to 10 Hz’.</p> <p>Further, it authorized member secretary to carry out editorial</p>	<p>Correction as per decision of the 30<sup>th</sup> meeting has been done in F-Draft and it has been processed for further action.</p> <p>Committee may please note.</p>	<p>Committee noted the information.</p>

		correction, if any.		
3.	<b>TED 11 (20542)</b> Self-Cancelling Direction Indicator Switch for Automotive Vehicles – Specification (First Revision of IS 4815)	<b>Status in 30<sup>th</sup> meeting:</b>  Draft document TED 11 (20542) was issued into Wide circulation for 60 days. <b>Circulation date:</b> 24.09.2023 <b>Last Date for comment:</b> 24.11.2023 No comments are received so far. Committee may please note the status of the document.  <b>Decision in 30th meeting:</b> Committee deliberated and decided that in case no comment is received in wide circulation period, BIS to process the document into publication directly. Further it authorized BIS to carry out editorial correction, if any.	Comments received on TED 11 (20542)W are attached at <b>Annexure 2.</b>  Committee may please deliberate.	Committee deferred the subject for further deliberation in next meeting.
4.	<b>TED 11 (20737)</b> Push Button Type Switch for Automotive vehicles – Specification (FirstRevision of IS 9521)	<b>Status in 30<sup>th</sup> meeting:</b>  Draft document TED 11 (20737) was issued into Wide circulation for 60 days. <b>Circulation date:</b> 24.09.2023 <b>Last Date for comment:</b> 24.11.2023 No comments are received so far. Committee may please note the status of the document.  <b>Decision in 30th meeting:</b>  Committee deliberated and decided that in case no comment is received in circulation period, BIS to process the document into publication directly. Further it authorized BIS to carry out editorial correction, if any.	<b>Comments received on draft document are:</b> <b>MSIL:</b> Not CMVR item, ACMA to further comment.  <b>LEAR:</b> 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.	Committee deferred the subject for further deliberation in next meeting.
5.	<b>TED 11 (22534)</b> Recommendation for Polarity of Earth Connections and Marking of Electrical	<b>Status in 30<sup>th</sup> meeting:</b>  <b>Comment from Hero Moto Corp vide mail dated 6.9.2023:</b> Proposed revision is acceptable to us. No additional comment is	On Draft document, following comment is received:  <b>MSIL</b> (date:	Committee deferred the subject for further deliberation in next meeting.

	Equipment for Automobiles (First Revision of IS 7471)	<p>received. Committee may please deliberate and decide to issue the draft document into wide circulation.</p> <p><b>Decision in 30th meeting:</b> Committee deliberated and decided to issue the draft document into WC for 60 days.</p>	<p>23.11.2023): Not CMVR item, ACMA to further comment</p> <p>Draft document is attached at <b>Annexure 3.</b></p> <p>Committee may please deliberate.</p>	
6.	<b>TED/11/23335</b> Revision of IS 1884: 1993 AUTOMOTIVE VEHICLES - AUDIBLE WARNING DEVICES SPECIFICATION	<p><b>Status in 30<sup>th</sup> meeting:</b></p> <p>P Draft was circulated on <b>23.08.2023</b> Last Date for Comment: <b>22.10.2023</b></p> <p>Comments received from Members are attached at <b>Annexure-3</b> Committee may please deliberate and decide to issue the draft into WC.</p> <p><b>Decision in 30th meeting:</b> Representatives from MSIL, Hero, BAL and Roots briefed their comments. Committee deliberated and decided to constitute a Panel (P-1), please refer ITEM 4.5 Committee requested <b>Panel 1 to submit its recommendation to BIS by 31 January 2023</b>, for deliberation in next committee meeting.</p>	<p>Panel 1 meeting was held on <b>17/4/2024.</b></p> <p>Minutes of the panel 1 meeting and ppt shared by MSIL during panel meeting are attached at <b>Annexure 4.</b></p> <p><b>Comments received from members are attached at Annexure 5.</b></p> <p>Committee may please deliberate.</p>	<p>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.</p> <p>Committee modified the scope of Panel (pl refer item 2.6).</p> <p>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.</p>
7.	<b>IS 15796: 2008</b> Automotive Vehicles -Horn installation requirements	<p><b>30<sup>th</sup> meeting Decision:</b> In 30<sup>th</sup> meeting, IS 15796 was allocated to SIAM for review.</p> <p>Committee requested SIAM to complete the review and submit review report by 31.1.2023, and submit the review report to BIS.</p>	<p>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.</p> <p>For deliberation held on review document, please refer the minutes of panel 1 meeting attached at <b>Annexure 4.</b></p> <p><b>Comments received from M/s BAL is attached at</b></p>	



			<b>Annexure 5.</b>  Committee may please deliberate.	
8.	<u><b>TED/11/23075</b></u> Revision of IS 9433: 1980  PIANO KEY TYPE SWITCHES FOR USE IN AUTOMOBILES SPECIFICATION	<b>Status in 30<sup>th</sup> meeting:</b>  P Draft was circulated on 25.07.2023 Last Date for Comment: <b>24.09.2023</b> Comments received from Members are attached at <b>Annexure-4</b> Committee may please deliberate and decide to issue the draft into WC.  <b>Decision in 30th meeting:</b>  Mr Varun from Heromotocorp briefed his comment and enquired the rationale for changing temperature to 85 degree C. Committee checked the previous minutes and re-deliberated on comments submitted by UNO minda for revision of IS 9433.  UNO Minda was not present in the meeting, committee requested BIS to follow up with UNO Minda for the rationale behind the proposed changes, and decided to discuss in next meeting.	Comments received from Members before the 30 <sup>th</sup> meeting are attached at <b>Annexure 6.</b>  Clarification from UNO Minda received via mail dated 25.4.24 is also attached at <b>Annexure 6.</b>  Committee may please deliberate.	Committee deferred the subject for deliberation in next meeting
9.	<u><b>TED/11/23215</b></u> Revision of IS 4050: 1976  HORN SWITCHES FOR AUTOMOBILES METHODS OF TESTS	<b>Status in 30<sup>th</sup> meeting:</b>  P Draft was circulated on 25.07.2023 Last Date for Comment: <b>24.09.2023</b> Comments received from committee members are attached at <b>Annexure-5</b> Committee may please deliberate and decide to issue the draft into WC.  <b>Decision in 30th meeting:</b>  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.	Panel 2 meeting was held on <b>21.2.24.</b>  Minutes of Panel 2 meeting is attached at <b>Annexure 7.</b>  Committee may please deliberate.	Committee deferred the subject for deliberation in next meeting
10.	<b>TED 11 (15614)</b> ‘Rear marking	<b>Status in 30<sup>th</sup> meeting:</b>	Please refer SI No 1 of ITEM 3.	Please refer SI No 1 of Item 3.

	plates — Rear marking plates for heavy and long vehicles’ (Adoption of AIS 089:2019)	Draft document is under preparation, will be processed to publication shortly. Committee may please note the status of the document <b>Decision in 30th meeting:</b> Taking reference from SI No 1 of ITEM 3, committee decided to put this document on hold and to deliberate in the next meeting for withdrawal/revision /further processing of the draft document TED 11 (15614).		
11.	<b>TED 11 (16959) P</b> ‘Road vehicles – Fuse links Part 3: Fuse-links with tabs blade type, Type C Medium Type E High Current Type F miniature type N and type P sub-miniature	<b>Status in 30<sup>th</sup> meeting:</b> Draft document is under preparation, will be processed to publication shortly. Committee may please note the status of the document <b>Decision in 30th meeting:</b> Committee noted the information given in the agenda and authorized member secretary to carry out editorial correction, if any.	While preparing the draft document to process it to publication, following points are observed :  1. In table 1- Type E is mentioned in Column 2 and Column 3  2. In Table 2- For operating time resting test, <i>IR or 1.10 IR a) 1.35 IR a) 1.60 IR 2.00 IR</i> are mentioned and in Table 4 test current mentioned are <i>IR or 1.10 IR a) 1.35 IR a) 1.60 IR 2.00 IR, 3.5 IR and 6 IR</i>  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 <b>TED 11 (16959)F</b>	Committee deferred the subject for deliberation in next meeting

			is attached at <b>Annexure 8.</b> Committee may please deliberate.	
12.	<b>Review/Revision of IS 2577 Part 1,2,4 &amp; 5</b>	<p><b>Status in 30<sup>th</sup> meeting:</b> Review reports of IS 2577 Part 1,2,4 &amp; 5 were circulated by then member secretary Shri Sharad Kumar vide BIS Portal dated 03.08.2023. Review report can be accessed by clicking on followings:</p> <ul style="list-style-type: none"> <li>• IS 2577-1</li> <li>• IS 2577-2</li> <li>• IS 2577-4</li> <li>• IS 2577-5</li> </ul> <p>Comments received from committee members are attached at Annex-10. Committee may please deliberate on comments received.</p> <p><b>Decision in 30th meeting:</b></p> <p>Member Secretary briefed the review report. Committee deliberated and decided to reaffirm IS 2577 Part 1,2,4 &amp; 5</p>	IS 2577 Part 1,2,4 & 5 has been reaffirmed, committee may please note.	Committee noted the information given in the agenda.
13.	<p><b>IS/ISO 6722-1 : 2011</b> Road vehicles -- 60 V and 600 V single-core cables -- Part 1: Dimensions test methods and requirements for copper conductor cables</p> <p><b>IS/ISO 6722-2 : 2013</b> Road vehicles - 60 V and 600 V single - Core cables: Part 2 dimensions, test methods and requirements for aluminium conductor cables</p>	-	<p>ISO 6722-1 : 2011 and ISO 6722-2: 2013 have been withdrawn.</p> <p>Committee may please deliberate.</p>	Committee deliberated and <a href="#">deferred the subject for deliberation in next meeting</a>

	(First Revision)			
14.	<p><b>IS 13931 (Part 1): 1993</b> Automotive vehicles - Stoplight switches: Part 1 specification</p> <p><b>IS 13931 (Part 2): 1993</b> Automotive vehicles - stoplight switches: Part 2 Methods of Test</p>	In 30 <sup>th</sup> meeting, IS 13931 Part 1 and Part 2 were allocated to ACMA for review.	<p>Review report was received from ACMA vide mail dated 20.2.2024.</p> <p>Review reports have been circulated through BIS portal and they can be accessed by clicking on followings:</p> <ul style="list-style-type: none"> <li>• <a href="#">Review report IS 13931 Part 1</a></li> <li>• <a href="#">Review report IS 13931 Part 2</a></li> </ul> <p>Committee may please deliberate.</p>	Committee deferred the subject for deliberation in next meeting
15.	<p><b>IS 8339: 1993</b> Automotive vehicles - Reflex reflectors - Specification</p>		<p>Review report was received from ACMA vide mail dated 19.2.2024.</p> <p>Review report has been circulated through BIS portal and it can be accessed by clicking on followings:</p> <p><a href="#">Review report of IS 8339: 1993</a></p> <p><a href="#">Comment from ARAI vide mail dated 23.4.24:</a></p> <p>this standard is older version and currently not using in automotive</p>	BAL also expressed their agreement with ARAI and MSIL comment. Committee deferred the subject for deliberation in next meeting

			<p>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.</p> <p>Committee may please deliberate.</p>	
16.	<p><b>IS 4063 : 1982</b></p> <p>Specification for fuse box for automobiles (First Revision)</p>		<p>Review was done by BIS officer Shri Niraj Kumar.</p> <p>Review report has been circulated and it can be accessed by clicking on the followings:</p> <p><a href="#">Review report of IS 4063: 1982</a></p> <p>Committee may please deliberate.</p>	<p>Committee deferred the subject for deliberation in next meeting</p>
17.	<p><b>IS 7998 : 1986</b></p> <p>Specification for contact breakers for two wheelers, three wheelers and stationary spark ignition engines (First Revision)</p>		<p>Review was done by BIS officer Shri Nishant Parasar.</p> <p>Review report has been circulated and it can be accessed by clicking on the followings:</p> <p><a href="#">Review report of IS 7998: 1986</a></p> <p>Committee may please deliberate.</p>	<p>Committee deferred the subject for deliberation in next meeting</p>
18.	<p><b>IS 7827 : Part 3 : Sec 2 : 1985</b></p> <p>Specification for electrical wind screen wiper: Part 3 wiper arms and blades section 2 wiper blades</p>		<p>Review was done by BIS officer Shri Mitrasen Verma</p> <p>Review report has been circulated and it can be accessed by clicking on the following:</p> <p><a href="#">Review report of IS 7827 Part 3 Sec 2:</a></p>	<p>Committee deferred the subject for deliberation in next meeting</p>

			<a href="#">1985</a> Committee may please deliberate.	
<b>19.</b>	<b>IS 2081 : 1998</b>  Automotive vehicles - Taper terminal cable connectors for batteries - Specification (Second Revision)		Review was done by BIS officer Shri Hariom Meena  Review report has been circulated and it can be accessed by clicking on the followings:  <a href="#">Review report of IS 2081: 1998</a> Committee may please deliberate.	<a href="#">Committee deferred the subject for deliberation in next meeting</a>

#### **ITEM 4 RESEARCH PROJECTS TO BE TAKEN UP FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS**

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.

#### **ITEM 5 COMMENTS/CLARIFICATION ON INDIAN STANDARDS**

Committee deliberated and approved the reply given.

#### **ITEM 6 REVIEW OF PUBLISHED STANDARDS**

**6.1** Committee noted the information given in agenda.

**6.2** 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 conformation is received to BIS from SIAM.

**6.3** Committee deliberated and decided as follows:

SI No	IS NO	Title	Decision
	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
	IS 12588 : 2014	Automotive vehicles - Oil and air assisted pressure gauges - Specification (First Revision)	
	IS 13599 : 2014	Automotive vehicles - Instrument systems - Temperature gauges - Electrical and Electronic type - Specification (First Revision)	
	IS 14141 : 1994	Automotive vehicles - Electrical windshield washing systems - Performance requirements	
	IS 1606 : 1979	Specification for automobile lamps (Second Revision)	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.
	IS 2077 : 2014	Automotive vehicles - Electric relays - Specification (Third Revision)	Committee allocated the review of these standards to ACMA
	IS 4060 : 1994	Automotive vehicles - Flashers for direction indicators - Specification (Second Revision)	
	IS 5577 : 2015	Automotive vehicles - Ammeters - Specification (Third Revision)	
	IS 17436 : 2020	Automotive Vehicles - Advance-Warning Triangle - Specification	

**6.4** Committee noted the information given in the agenda and requested the members to identify 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, and provide the detail to BIS for archiving those standards.

#### **ITEM 7 NEW WORK ITEM PROPOSAL**

Committee deliberated on Lear Proposal and deferred the other subjects for deliberation in next 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.

Shri Sumit from MSIL mentioned that subject AIS 189 and AIS 190 was discussed in last meeting of TED 28. Shri Vijy from Renault mentioned that since cybersecurity affects the electrical components directly, (electrical component under the Scope of TED 11) it should come under TED 11. It was 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.

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 drafts are received from Renault.

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.

## **ITEM 8 INTERNATIONAL ACTIVITIES**

**8.1** Committee noted the information given in agenda.

**8.2** Committee noted the information given in agenda.

### **8.3 ISO Ballots**

Committee deferred the subject for deliberation in next meeting.

### **8.4 ISO Standards**

Committee deliberated and decided to constitute Panel 4 and Panel 5. For detail please refer item 2.5 above.

### **8.5 Participation in WG**

Committee noted the information. Shri Kiran from Lear briefed the development that happened recently in ISO TC 22 SC 32 WG 8. About WG 11 he mentioned that WG11 meeting is scheduled in last week of May and nominated representative from Lear will participate.

Shri Rajeev Malhotra was not present in the meeting, committee requested Malhotra cable to brief the activity happening at ISO under ISO TC 22 SC 32 WG 4, in next committee meeting.

### **8.6 Participation in ISO Meetings**

Committee noted the information and mentioned that expert interested for participation in ISO meeting may submit the details to BIS.

## **ITEM 9 PROGRAM OF WORK**

Committee noted the information.

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

Committee deliberated and prepared the roadmap of TED 11 committee as follows:

- Formulation of Indian Standards, based on AIS 198, AIS 199 and AIS 200
- Formulation of Cybersecurity Standards
- Study of ISO TC 22 SC 32 and SC 35 standards and deliberating for adoption

It requested members to suggest the additional subjects through mail, which can be taken in TED 11 roadmap.

## **ITEM 11 ANNUAL PLAN OF STANDARDIZATION (2024-25)**

APS of TED 11 committee was circulated vide mail dated 2 May 2024. Committee noted the information. shared shortly through mail.

## **ITEM 12 STANDARDS NOTIFIED UNDER CMVR**

Committee noted the information and requested members to provide the detail of Standard, if any missing, to update.



**ITEM 13 ANALYTICAL REPORTS/ADVANCED DASHBOARD**

Member Secretary briefed about the advance dashboard Portal.

**ITEM 14 DATE FOR THE NEXT MEETING**

Committee deliberated and decided to conduct the 32<sup>nd</sup> and 33<sup>rd</sup> committee meetings as follows:

<b>Meeting Number</b>	<b>Meeting Date</b>	<b>Mode</b>
32 <sup>nd</sup>	16 September	Physical (In Pune or some other suitable place in consultation with Chairperson)
33 <sup>rd</sup>	19 February	Virtual

**ITEM 15 ANY OTHER BUSINESS**

There being no other business, meeting ended with vote of thanks to chair and participants.