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BUREAU OF INDIAN STANDARDS

*M I N U T E S*

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| Name of The Committee | **No. of Meeting** | **Date and Time** | **Day** | **Venue** |
| **In service Vehicle Inspection, Certification and Garage Equipment Sectional Committee, TED 31** | **TENTH** **(10th)** | **26th September 2024**  from **10: 30am** onwards | **Thursday** | **Virtual (Webex)** |

**CHAIRPERSON:** Dr Manish Jaiswal, Director (NATRAX) **HEAD (TED):** Shri A.P.D Dwivedi

**MEMBER** **SECRETARY:** Shri Gaurav Jayaswal

**MEMBERS PRESENT**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **NAME OF MEMBER** | **NAME OF ORGANIZATION** |
|  | Dr Manish Jaiswal | M/s National Automotive Test Tracks, Dhar (NATRAX) |
|  | Shri Kumaran N | M/s Ashok Leyland Limited, Chennai |
|  | Shri Ved Gautam | M/s Ashok Leyland Limited, Chennai |
|  | Shri Ashish Kumar | M/s Ashri Automotive Consultants, New Delhi |
|  | Dr. RRK Kishore | M/s Association of State Road Transport Undertakings |
|  | Shri Santosh Gawade | M/s Automotive Research Association of India (ARAI), Pune |
|  | Shri Munsarif Andari | M/s AVL India Private Limited, Pune |
|  | Shri Hasan, Iftekhar | M/s AVL India Private Limited, Pune |
|  | Shri S. N. Dhole | M/s Central Institute of Road Transport, Pune |
|  | Dr. M. M. Pathak | M/s Central Institute of Road Transport, Pune |
|  | Shri Anurag Jain | M/s Deva Autotronics Private Limited |
|  | Shri Muruganandan | M/s ELGI |
|  | Shri Rasik Srivastava | M/s ELGI |
|  | Shri V Gokul | M/s Global Automotive Research Centre (GARC) |
|  | Shri Thiravida selvan | M/s Global Automotive Research Centre (GARC) |
|  | Shri Eshan Gupta | M/s Hero Motocorp Limited, New Delhi |
|  | Shri Piyush Chowdhry | M/s Hero Motocorp Limited, New Delhi |
|  | Shri Amit Mondal | M/s international Centre for Automotive Technology (ICAT) |
|  | Shri Sunil Bakshi | M/s international Centre for Automotive Technology (ICAT) |
|  | Shri Rengarajan Ulaganathan | M/s MAHA India Automotive Testing Equipment Private Limited |
|  | Shri Raj Kr Dwivedi | M/s Maruti Suzuki India Limited (MSIL) |
|  | Shri Kiran Mulki | M/s National Automotive Test Tracks, Dhar (NATRAX) |
|  | Shri Amlan Dey | M/s National Institute For Automotive Inspection, Maintenance & Training (NIAIMT), Silchar |
|  | Shri Abhijit Mandal | M/s National Institute For Automotive Inspection, Maintenance & Training (NIAIMT), Silchar |
|  | Dr Rashid Hasan | M/s Society of Indian Automobile Manufacturers (SIAM) |
|  | Smt. Mukti Prasad | M/s Society of Indian Automobile Manufacturers (SIAM) |
|  | Shri Sundara Ganesh | M/s SMS Autoline Equipments Private Limited, Chennai |
|  | Shri Shriniwas P Chakravarthy | M/s Volkswagen India Private Limited, Mumbai |

# WELCOME ADDRESS

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

Shri A.P.D Dwivedi, Head (TED), greeted all the members present in the meeting and thanked them for their active participation in the committee activities. He emphasized the need for more frequent meetings to ensure timely formulation and revision of standards. He also requested them to actively participate in the national standardization efforts.

## **Opening Remarks by the Chairman**

Dr Manish Jaiswal, Director (NATRAX) and Chairperson, TED 31, welcomed all members present at the 10th SC TED 31 meeting and expressed his gratitude to all the committee members. He encouraged all members to actively participate and emphasized the importance of setting clear expectations from Panels and members working under the ambit of SC TED 31, as there is still much work to be done. Dr Jaiswal highlighted the need to revitalize the panels under SC TED 31, finalize their composition, and assignments for these panels for time-bound outcomes by the next meeting.

# CONFIRMATION OF THE MINUTES OF LAST MEETING

## The Minutes of the 10th Meeting of In service Vehicle Inspection, Certification and Garage Equipment Sectional Committee, TED 31 held in online mode through Webex Video Conferencing Platform, on 26th September 2024, were circulated through BIS Portal. The committee formally confirmed the minutes of the meeting.

# SCOPE & COMPOSITION OF THE SECTIONAL COMMITTEE

## The committee noted the Scope and Liaison of SC TED 31 as given in the agenda.

## The committee noted the composition of the committee given in the agenda.

### The committee noted that M/s CIRT could not attend the previous two meetings. However, with Dr M.M. Pathak from CIRT attending this meeting, CIRT was asked to update its nominations to ensure consistent communication and attendance. Dr Pathak assured the committee to provide updated nominations from M/s CIRT to the BIS Secretariat for representation in SC TED 31.

### The committee noted that M/s CPCB could not attend the last two meetings. However, Given their key role in Pollution under Control and End of Life Vehicles, The committee requested Member Secretary to write a letter to M/s CPCB seeking their updated nominations for participation in the activities of SC TED 31.

## **Co-options**

### The committee noted the information given in the agenda.

### The committee noted that Name of M/s **Actia India Private Limited** has been changed to M/s **Deva Autotronics Private Limited** and requested member secretary to update the same on BIS Portal.

### The committee also decided to co-opt M/s Automotive Component Manufactures Association of India (ACMA), New Delhi in the committee. Member secretary was requested to follow up with shri Sanjay Tank, ACMA to seek nominations from ACMA in SC TED 31.

## **Panels Working Under Purview of SC TED 31**

## The committee reviewed the composition and deliverables of existing panels and decided as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Panel** | **Composition** | **Deliverables / Decisions** | **Status of Progress made** | **Decision in 10th meeting** |
|  | Panel 1: Pollution Under Control | 1. Shri A. A. Deshpande, ARAI (**Panel Convener**) 2. ICAT 3. GARC 4. AVL 5. SMS 6. Rosmerta 7. MSIL 8. MAHA | 1. Examination of Documents related to the subject “Pollution Under Control” | Document TED 31 (20653) on the subject “Pollution under Control” is under publication.  The committee may please note. | The committee noted the information. |
|  | Panel 2: Garage Equipments | 1. Mr. Gururaj Ravi, MSIL **(Panel Convener)** 2. SNAPON 3. PRECISION Equipment 4. BOSCH 5. Automotive Skills Development Council (ASDC) {*Shri Anil Chikkara agreed to give contact details of suitable representatives from ASDC*} 6. SIAM 7. ACMA 8. CIRT 9. ELGI 10. Any other members co-opted by Panel Convener and approved by Chairperson, TED 31 | 1. Revision of Jacks Standards (Revision of IS 4552-1,2) 2. Drafting of Terms of reference of Panel 3. Finalization of Panel Composition 4. Discussion on NWIP on Automotive Washing Machines | Email dt. 27-08- 2024 Was sent to Mr. Anil Chikkara for getting contact details of M/s ASDC. The contact details have been received and an email has been sent to the specified representative from M/s ASDC for becoming member of Panel 2.  Response is awaited.  Email dt. 11 -09 - 2024 has been written to Bharadwaj M Krishnamurthy from M/s Bosch for providing nominations for co -option in this panel. However response is still awaited. Email dt. 28 -08 - 2024 was sent to Panel convener (MSIL) for providing the contact details of M/s SNAPON and M/s PRECISION Equipment but contact details could not be received. Subsequent to this, Email was also written to ACMA dt. 02 - 09 -2024 for sharing contact details of M/s SNAPON and M/s PRECISION Equipment however contact details of the nodal person from these organization is still awaited. Email dt. 21/08/2024 was received from the panel convener stating his recommendations on subjects (standards for review) assigned to Panel 2 (Table Attached as Annex- 3 of the agenda). The panel meeting however is yet to be conducted.  The committee may deliberate and decide. | The committee noted that the panel lacks the representation of Garage Equipment Manufacturers.  In order to address this gap, It was decided that BIS Secretariat will write to M/s SIAM & M/s ACMA Secretariat to provide nomination of M/s SNAPON and M/s PRECISION along with other garage equipment manufacturer who can be co-opted in the panel.  Additionally, Shri Raj Kumar Dwivedi from MSIL requested SIAM to coordinate with its Service Group to gather contact details of members for garage equipment standardization.  Smt. Mukti Prasad assured she would obtain contact details of other garage equipment manufacturers from the Service Group once communication is received from BIS.  The committee also decided to co-opt M/s CIRT and M/s ELGI as the new panel members.  Mr. Sunil Bakshi assured the committee to provide the contact details of M/s ELGI along with other Garage Equipment Manufacturers.  The committee also requested Shri Shriniwas P. Chakravarthy from Volkswagen to provide the contact details for M/s SNAPON.  Shri Raj Kumar Dwivedi from MSIL also delivered a short presentation on Subjects Dealt by the panel and recommendation of MSIL. The same is being circulated along with the minutes as separate attachment for reference purposes.  The chairman appreciated MSIL for the work done and also highlighted that Panel 2 has an open point for discussion regarding Automotive Washing Machines for 2 Wheelers and requested the Panel 2 to conduct its first meeting as soon as the composition is finalized. |
|  | Panel 3: Lighting | 1. Dr. Madhusudan Joshi, iCAT (**Panel Convener**) 2. Renault Nissan 3. VolksWagen 4. Hella India lighting 5. ARAI 6. MSIL | 1. Dr Madhusudan Joshi from iCAT was requested to organize a demonstration of the Headlight Testing Facility at iCAT for both conventional as well as electric vehicles for the interested members of the SC TED 31 Committee. 2. Panel 3 was requested to prepare a draft on the method for I&C team members present onsite to quickly identify if unregulated light sources are being fitted on the headlamps. | In accordance with the decisions of the 9 th meeting of SC TED 31, an Email dt.28-09- 2024 was sent to Dr Madhusudan Joshi (Panel Convener) to confirm a suitable date on which iCAT can organize a demonstration of its Headlight testing Facility for Interested Committee members of SC TED 31.  1 st reminder dt.02-09-2024, IInd reminder dt.12-09-2024 was also sent.  Response however is still awaited. Email (Co-option) dt 29-08- 2024 has been sent to M/s Volkswagon and M/s Hella India with a reminder dt. 13/09/2024.  Response is still awaited.  The response is awaited. | The committee noted that multiple reminders have been sent by BIS Secretariat to the panel convener for conducting the demonstration of the headlight testing facility along with conducting the first panel meeting for formulation of draft on the method for I&C team members present onsite to quickly identify if unregulated light sources are being fitted on the headlamps.  Shri Sunil Bakshi (iCAT) assured the committee that he will talk to Shri Madhusudan Joshi (Panel Convenor) for conducting the demonstration as well as Panel 3 Meeting as soon as possible. |
|  | Panel 4: Braking Efficiency | 1. Mr. Jayant Bhalerao , ARAI (**Panel Convener**) 2. MAHA 3. ACTIA 4. ACMA 5. CIRT 6. AVL 7. Hero Motocorp 8. SIAM 9. Mr. Kiran Mulki, NATRAX 10. MSIL 11. NIAIMT 12. Rosmerta 13. ICAT 14. Mr. Anil Chikkara, (In Personal Capacity) | 1. Discussion on Draft Standard for Braking Efficiency of L Category Vehicles as submitted by M/s Hero MotoCorp. 2. Draft Standard to be developed for Braking Efficiency on M&N Category Vehicles. 3. Limit to be discussed on Braking Efficiency and revising the limit as given in AIS 128. 4. Discussion on Draft as submitted by M/s AVL on Electronic Parking Provisions. 5. The Committee also requested BIS to share the data collected at I&C test centres on various categories of vehicles running on road as shared by Shri B Bhanot with SIAM and BIS. | The panel meeting is yet to conducted. The committee may deliberate and decide | Shri Santosh Gawde from ARAI, informed that they are studying the data collected at I&C Centres and shared by BIS.  The committee requested ARAI to share this data further to all panel members for study purposes.  The committee also decided to co-opt M/s ACMA, M/s AVL and M/s CIRT in the panel.  The committee also requested ARAI to conduct the first panel meeting at the earliest to address and finalize the tasks assigned in the previous meeting. |
|  | Panel 8: End of Life Vehicles | 1. Shri Guru raj Ravi, MSIL (**Panel Convener**) 2. ARAI 3. SIAM 4. ACMA 5. GARC 6. NATRAX 7. ICAT 8. Material Recycling Association of India (*The committee requested the chairperson to provide the contact details of MRAI*) 9. Recycling Companies as suggested by Panel Convener | 1. Drafting of Working Draft based on AIS 129 2. Drafting of Terms of reference of Panel 3. Finalization of Panel Composition | Email dt.02-09- 2024 & reminder dt.12-09-2024 for Co-option has been sent to MRAI. The response is awaited. Email dt. 21/08/2024 was received from the panel convener along with the draft based on AIS 129 (Attached at Annex- 2 of the agenda). The same was circulated to all the panel members (whose contact details were available) via email dt. 27/08/2024 for their comments. Comments (in form of updated draft) through email dt. 29/08/2024 from Shri Santosh Gawade, ARAI were received and the same have been forwarded to the panel convener. Meanwhile the Copy of ISO 22628 was also requested by the panel convener and the same was shared with him. The panel 8 meeting however is yet to be conducted. The committee may deliberate and decide | Shri Raj Kumar Dwivedi from MSIL also delivered a short presentation on End of life vehicles covering recent amendments to AIS 129 and various GSRs issued by MoRTH on the subject. The Copy of the Presentation is being circulated along with the minutes as separate attachment for reference purposes.  The committee noted the progress so far and appreciated the work done by M/s MSIL and M/s ARAI on the subject.  The committee also decided to co-opt M/s Hero Motocorp as a member of Panel 8.  The committee requested M/s MSIL to conduct the first meeting of Panel 8 at the earliest the draft can be finalized for circulation among the committee members as P-Draft. |

# ISSUES ARISING OUT OF THE MINUTES OF THE LAST MEETING

The summary of actions taken on the Minutes of previous meeting and the decisions taken by the committee during the current meeting are given below:

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| --- | --- | --- | --- | --- | --- |
| **Item No.** | **Subject** | **Decision of in committee in Previous meetings** | **Proceedings in Last (9th) Meeting** | **Current Status** | **Decision of the committee** |
|  | **Standardization under the subject ‘Pollution Under Control’** | **5th meeting**  The committee observed that IS 14554 and IS 9057 were formulated a long time back and the introduction of BS VI norms necessitated the formulation of new standards. Based on Sh. Deshpande’s suggestion, the committee decided to formulate a draft Indian Standard based on AIS 137(Part 8)  **6th meeting**  ARAI informed that Ministry of Road Transport & Highways (MoRTH) has already issued a notification regarding emission norms for PUC testing of BS VI compliant vehicles vide G.S.R. 881(E). Additionally, AIS 137 (Part 8) is also approved by Automotive Industry Standards Committee & published.  The committee requested Sh. Santosh (ARAI) to provide a draft standard based on AIS 137 (part 8) so that same can be adopted as Indian Standard.  **7th Meeting status**  Draft document from ARAI is received and the same has been circulated to committee members vide Mail dated: 28 June 2022.  ARAI informed through mail dt. 21.06.22 that, with the adoption of above draft Indian Standard by BIS following 4 nos. Indian Standards may be repealed:     1. IS 14554 : 1998 - Automotive Vehicles –Exhaust Emissions - Apparatus For The Measurement Of Carbon Monoxide Concentration From Vehicles Equipped With Spark Ignition Engines At Idling – Specification 2. IS 9057 : 1998 - Automotive Vehicles -Exhaust Emissions - Carbon Monoxide Concentration At Idling For Vehicles Equipped With Spark Ignition Engines - Method Of Measurement (Second Revision ) 3. IS 14553 : 2008 - Automotive Vehicles — Apparatus For The Measurement Of Opacity (Smoke) Of Exhaust Gas From Vehicles Equipped With Compression Ignition Engines — Specification ( First Revision) 4. IS 8118 : 2008 - Automotive Vehicles — Opacity (Smoke) Of Exhuast Gas From Vehicles Equipped With Compression Ignition Engines Operating Under Free Acceleration — Method Of Measurement (Third Revision)   **Decision of 7th Meeting**  Committee noted the status of the document prepared by ARAI. Committee authorized member secretary to circulate the draft in P-Draft in BIS format for 30 days and if no comment is obtained in 30 days circulation period, the document to be processed for Wide circulation of 60 days.  Committee further decided that comments received (if any) on above document during the P-Draft/W-draft circulation period, can be put up to ARAI first before bringing before the Panel for further deliberation if any.  Committee agreed to withdraw IS 14554, IS 9057, IS 14553, IS 8118 after publication of Indian standard, based on AIS 137 (Part-8).  **Status in 8th Meeting:**  Draft document TED/31/20653 was circulated in P- draft dt. 19/10/2022.  Comments were received from ARAI, MSIL, AVL & Ashok Leyland, which were discussed in panel meeting dt. 20th Jan 2023 & sub- panel meeting dt. 20th Feb 2023.  Minutes of panel & sub- panel meeting is attached at ANNEX 2 & ANNEX 3, respectively.  Committee may deliberate.  **Decision in the 8th Meeting:**  Committee agreed on panel recommendations.  Committee requested M/s AVL and M/s ARAI to discuss the comments mentioned at Sr No 10,13,16 and 17 of Annex 3 of agenda and submit their recommendation to BIS for further considerations.  Further committee decided to process the  draft document TED/31/20653 after incorporating the agreed comments, in wide circulation for 60 days. | **Status in 9th Meeting:**  Recommendations from M/s AVL and M/s ARAI on Sr No 10,13,16 and 17 of Annex 3 of agenda of last (8th) Meeting is also awaited.  Draft document TED/31/20653 was sent for wide circulation of 60 days.  No Comments have been received from members on the Wide Circulation draft.  The committee may deliberate and decide.  **Decision in 9th Meeting**  The committee decided to send the document TED/31/20653 for printing. | The document TED/31/20653 is under publication. | The committee noted. |
|  | **Standardization under the subject ‘Braking Efficiency’** | **Status in 8th Meeting:**  Comment received from Sh. Lalit is attached in Annex – 4 of the agenda of 8th meeting. In the 7th Meeting committee requested SIAM’s views on comments received from Mr Lalit. **Input from SIAM is awaited.**  Draft document on braking efficiency of two wheelers was received from Mr. Piyush Chaudhary from Hero MotoCorp. It was circulated with Committee members vide mail dated 21/12/2022. Draft document is attached at [Annex 5](#Annex5) of the agenda of 8th meeting.  Comments were received from Shri Raj Rengarajan (from MAHA India Automotive testing Equipment pvt. Ltd.) & Shri Alman Dey (from NIAMIT) on draft documents, which are attached at ANNEX - 6 & ANNEX – 7 of the agenda of 8th meeting, respectively.  Committee may deliberate on draft document and comments received.  **Decision in the 8th Meeting:**  Shri Dipak Shaw (on behalf of SIAM) briefed the draft document to committee members.  Committee requested SIAM to check whether weight mentioned in the formula is GVW or total weight. In committee view, it should be total weight.  Committee noted the observation submitted by MAHA India on braking efficiency.  Sh. Ansari from AVL pointed out that Electronic Parking provision is not added in the draft, committee requested AVL to provide a draft document on electronic parking for further discussion.  Recommendations of SIAM of 40% braking efficiency were accepted subject to ARAI comments as mentioned above. | **Status in 9th Meeting:**  Draft Document on Electronic Parking provision has been received from Shri Ansari, AVL and the same is attached as Annex- 3.  Clarification of SIAM to check whether weight mentioned in the formula is GVW or total weight is awaited.  The committee may deliberate and decide.  **Decision in 9th Meeting:**  The committee noted that Shri Ansari from AVL has submitted the Draft Document on Electronic Parking provision and requested Panel 4 to deliberate the draft and give its recommendation.  In addition to the above, The committee also assigned the work of discussing the draft standard for braking efficiency of L category vehicles to Panel 4 as submitted by Hero MotoCorp and to develop a draft standard for braking efficiency for M&N category vehicles.  Panel 4 was also tasked with discussing and revising the braking efficiency limits as given in AIS 128. | Panel 4 meeting is yet to be conducted.  The committee may deliberate and decide. | The committee requested ARAI to conduct the first panel 4 meeting at the earliest to address and finalize the tasks assigned in the previous meeting. |
|  | **Standardization under the subject “Intensity of Head Light”** | **Status in 8th Meeting:**  Suggestion from Dr Joshi is awaited regarding  suitable correlation in terms of intensity of light instead of wattage prescribed in Rule 62 of CMVR.  **Decision in the 8th Meeting:**  Dr Joshi briefed that sometimes in the field non standards light  sources are fitted in headlamp and these headlamps are not approved as per CMVR. These non- standard source cause nuisance on the road and is painful for the road traffic.  He pointed that this problem is mainly observed in high duty application. He presented a presentation and proposed 3 methods for solution.  Presentation is enclosed.  Committee deliberated on the proposals at length.  Further committee requested ICAT to arrange demonstration of proposed set ups within 1 month, to demonstrate them to concern committee members.  Chairman pointed out that testing of EVs in I&C is also a concern. Most of I& C people don’t know how to measure the provisions mentioned in GSR. He requested ICAT to make a demonstration for EVs testing also.  AVL also explained about their device which can be used to measure wattage, committee requested AVL also to demonstrate their equipment as well when ICAT organizes the demonstration. AVL catalogue is also enclosed. | **Status in 9th Meeting:**  The committee may discuss the way forward for Panel on “Intensity of Head Light” for studying feasibility of drafting the Indian Standard on intensity of head light in line with requirements of Rule 62 (CMVR) as well as formulating the draft standard for head light beam taking assistance from AIS 128 as outlined.  **Decision in 9th Meeting:**  Dr Madhusudan Joshi from iCAT was requested to organize a demonstration of the Headlight Testing Facility at iCAT for both conventional as well as electric vehicles for the interested members of the SC TED 31 Committee.  Panel 3 was requested to prepare a draft on the method for I&C team members present onsite to quickly identify if unregulated light sources are being fitted on the headlamps. | Email has been sent to dt.28-09-2024, 1st reminder dt.02-09-2024, IInd reminder dt.12-09-2024 to provide a suitable date on which iCAT can organize a demonstration of its Headlight testing Facility for Interested Committee members of SC TED 31.  Response is however awaited.  The committee may deliberate and decide. | The committee noted that multiple reminders have been sent by BIS Secretariat to the panel convener for conducting the demonstration of the headlight testing facility along with conducting the first panel meeting for formulation of draft on the method for I&C team members present onsite to quickly identify if unregulated light sources are being fitted on the headlamps.  Shri Sunil Bakshi (iCAT) assured the committee that he will talk to Shri Madhusudan Joshi (Panel Convenor) for conducting the demonstration as well as Panel 3 Meeting as soon as possible. |
|  | **Mandatory & Optional Tests** | **5th meeting**  The committee requested MAHA India to present a draft paper on the subject of constituting a panel on mandatory tests, secondary tests and optional tests.  **6th meeting**  The committee requested MAHA India to present a draft paper on vehicle inspection based on EU directives and norms in other countries by next meeting of the committee.  **7th Meeting status**  Draft paper received from MAHA is attached as ANNEX-4  Sh. Raj Rengarajan is requested to brief the committee  **Decision of 7th Meeting**  Committee observed that document shared by MAHA include machineries in detail however it does not have detail about limit on suspension, side slip test, noise etc.  Chairman will collect the data for suspension and side slip of different type of vehicles and will share with committee members. Further committee decided that chairman will hold a panel meeting after 2 month to discuss the same.  **Status in 8th Meeting:**  A letter was sent to MoRTH for allowing BIS to share the data with committee members for standard formulation.  No objection certificate is attached from MoRTH vide letter dated 02/03/23.  Committee may deliberate further course of action.  **Decision in the 8th Meeting:**  Chairman presented the analysis report, which he carried on 3Wheelers, LCV and HCV/MCV for braking efficiency, side slip, horn test, exhaust noise, parking brake efficiency and shock absorber efficiency. He informed that the data was obtained from various I&C centers throughout India and in total more than 1 lakh vehicles data was used to prepare the analysis report. He explained the analysis report in detail and sought the committee members inputs on the same. SIAM was requested to discuss it internally and submit its views to BIS on the limits to be prescribed for above parameters before the panel meeting**.** It was decided that a panel meeting will be held to discuss and finalize the limits and draft document. Data will be shared by Chairman with SIAM. | **Status in 9th Meeting:**  The committee may discuss the further course of action for Panel on Mandatory and Optional Tests.  **Decision in 9th Meeting:**  The Committee requested BIS to share the data collected at I&C test centres on various categories of vehicles running on road as shared by Shri B Bhanot with SIAM and BIS to Panel 4 Members. | Data collected at I&C test centres on various categories of vehicles running on road as shared by Shri B Bhanot with SIAM and BIS has been shared with panel 4 convener.  The committee may please note. | Shri Santosh Gawde from ARAI, informed that they are studying the data collected at I&C Centres and shared by BIS.  The committee requested ARAI to share this data further to all panel members for study purposes.  The committee also requested ARAI to conduct the first panel 4 meeting at the earliest to address and finalize the tasks assigned in the previous meeting. |

# NEW WORK ITEM PROPOSAL

## **NWIP on Automatic Two Wheeler Washing Machine**

### The committee requested Panel 2 Convener to conduct the first Panel 2 Meeting at the earliest after finalization of the panel composition.

## **NWIP on End of Life Vehicle**

### The committee noted that Panel convener has prepared a working draft based on AIS 129 and the same has been circulated to Panel members for their comments. The committee further requested Panel 8 Convener to conduct the first Panel 8 Meeting at the earliest for finalizing the draft for circulation among the committee members as P-Draft.

# REVIEW OF INDIAN STANDARDS

## The committee noted the information given in the agenda.

# PRESENT Program OF WORK

## The committee noted the present program of work of the committee.

# DATE AND PLACE FOR THE NEXT MEETING

## The committee decided to fix the date and place of the next meeting in consultation with the chairperson.

# ANY OTHER BUSINESS

## There being no other comments, the meeting ended with a vote of thanks from the Member Secretary to the Chairman and the members.