

BUREAU OF INDIAN STANDARDS

MINUTES

<u>Name of the Committee</u>	<u>Meeting No.</u>	<u>Date and Time</u>	<u>Date</u>	<u>Meeting Link</u>
Vehicle Inspection and Certification Sectional Committee, TED 31	<u>Eighth (8th)</u>	31st March 2023 10:30 AM	Friday	Click Here to Join

CHAIRMAN: Sh. Balraj Bhanot
HEAD (TED): Sh. P V Srikanth

MEMBER SECRETARY: August Dubey

ATTENDANCE:

Member Name	Organization Name
Shri Ved Gautam	Ashok Leyland Limited
Shri Sachin Chachare	Association of State Road Transport Undertakings
Shri Sundara Ganesh	Autoline Equipments Pvt. Ltd.
Shri Jayant Bhalerao	Automotive Research Association of India
Shri Santosh Gawade	Automotive Research Association of India
Shri Munsarif Izhar Ansari	AVL India Private Ltd.
Shri Piyush Chowdhry	Hero Motocorp Limited
Shri Dipak Shaw	Hero Motocorp Limited
Shri Amit Mondal	International Centre for Automotive Technology
Shri Ashish Negi	International Centre for Automotive Technology
Shri Devender	International Centre for Automotive Technology
Shri Madhusudan Joshi	International Centre for Automotive Technology
Shri Sunil Bakshi	International Centre for Automotive Technology
Shri Manoj Prabagar	Maruti Suzuki India Limited
Shri Raj Kumar Diwedi	Maruti Suzuki India Limited
Shri Rengarajan	MAHA India Automotive Testing Equipment Private Limited
Shri Muthazhagan M	Manatec Electronics Private Limited,

Shri K C Sharma	Ministry of Road Transport & Highways
Shri Punit Talwar	Rosmerta Technologies Limited
Shri Sumit Lalit	Rosmerta Technologies Limited
Shri Lokesh Mittal	Society of Indian Automobile Manufacturers (SIAM)
Shri Mayank Bhatia	Society of Indian Automobile Manufacturers (SIAM)
Shri Nilesh Wadekar	Volkswagen India Private Limited
Shri Shrikant Haragapurkar	-

ITEM 0 WELCOME AND INTRODUCTORY REMARKS

0.1 Welcome by Member Secretary – Member Secretary welcomed all the members present in the 8th Meeting of TED 31.

0.2 Opening Remarks by the Chairman – Shri B Bhanot, Chairman TED 31 welcomed all the members present for the 8th Meeting of TED 31. He sought active support from OEMs as the same seems to be lacking. Since the scrappage policy is now linked with Automated testing stations (ATS), lot of importance is now attached to test lane centers. Standardization work in ATS has to pick up the desired momentum. Further, He touched upon the important agenda points and briefed the background of each subject. He thanked MoRTH for allowing the BIS to use the test data so far collected on the pilot test centers of MoRTH, for development/ upgradation of standards. Similar actions are required for equipment used in modern garages, where electronics is playing greater role. He appraised the members about finalization of PUC standards. He thanked Mr. K.C. Sharma of MoRTH for participating in the meeting and requested him for giving his valuable suggestions.

0.3 Opening Remarks by the Shri K C Sharma

Shri K C Sharma thanked TED 31 committee for inviting him in the meeting. He informed that India is signatory to GTR agreement therefore we were following UNECE standards and simultaneously we need to harmonize our standards as soon as possible. He emphasized on development of indigenous standards considering the local conditions, data, terrains and topographies. He pointed out that spread of ATS will improve the performance parameters of vehicles running on field by encouraging a habit of maintaining vehicles in compliance to standards prescribed in GSR 652/797. He requested expert members to carefully analyze the generated data through ATS and use them for upgrading and developing the Indian standards.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

The Minutes of the 7th Meeting of Vehicle Inspection and Certification Sectional Committee, TED 31 held in virtual mode through Webex Video Conferencing Platform, on 29th August 2022, was circulated through our portal dated 3rd October 2022. No comments with regards to decision of committee have been received. Committee confirmed the Minutes.

ITEM 2 COMPOSITION OF THE SECTIONAL COMMITTEE/ SUB-COMMITTEE/ PANEL

2.1 The Committee noted the information as given in the agenda.

2.2 The Committee noted the information as given in the agenda.

2.3 Committee noted the information given in the agenda. Committee welcomed new co-opted members and requested them to actively participate in standardization activity. Further, committee requested Member Secretary to follow up with ATS ELGI, IIT Delhi, ACMA, MoRTH, Naman Automotive and Precision Indivar Arora for co-option.

2.4 The Committee noted the information as given in the agenda.

2.5 The Committee noted the information as given in the agenda.

2.6 Committee noted the information given in the agenda.

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

The summary of actions taken on the Minutes of last meeting and current decisions taken by the committee is given below:

Sl No.	Subject	Decision taken in Previous meetings	Present Status	Decision
1	Standardization under the subject 'Pollution Under Control'	<p>7th Meeting status</p> <p>Draft document from ARAI is received and the same has been circulated to committee members vide Mail dated: 28 June 2022.</p> <p>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:</p> <p>1) IS 14554 : 1998 - Automotive Vehicles –Exhaust Emissions - Apparatus For The Measurement Of</p>	<p>Draft document TED/31/20653 was circulated in P- draft dt. 19/10/2022.</p> <p>Comments were received from ARAI, MSIL, AVL & Ashok Leyland, which were discussed in panel</p>	<p>Committee agreed on panel recommendations.</p> <p>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.</p> <p>Further committee decided to process the draft document TED/31/20653 after</p>

		<p>Carbon Monoxide Concentration From Vehicles Equipped With Spark Ignition Engines At Idling – Specification</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>Decision of 7th Meeting</p> <p>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.</p> <p>Committee further decided that comments received (if any) on above document during the P-Draft/W-draft</p>	<p>meeting dt. 20th Jan 2023 & sub- panel meeting dt. 20th Feb 2023.</p> <p>Minutes of panel & sub-panel meeting is attached at ANNEX 2 & ANNEX 3, respectively.</p> <p>Committee may deliberate.</p>	<p>incorporating the agreed comments, in wide circulation for 60 days.</p>
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		<p>circulation period, can be put up to ARAI first before bringing before the Panel for further deliberation if any.</p> <p>Committee agreed to withdraw IS 14554, IS 9057, IS 14553, IS 8118 after publication of Indian standard, based on AIS 137 (Part-8).</p>		
2	Standardization under the subject 'Braking Efficiency'	<p style="text-align: center;">7th Meeting status</p> <p>Recommendation regarding efficiency for 2-wheeler, from SIAM is awaited. SIAM is requested to brief the status.</p> <p><i>SIAM Input: Internal deliberations are progressing well within SIAM and a draft proposal on 2Ws will be ready by the next meeting after achieving a broad consensus within 2W industry members.</i></p> <p>Committee may also note that input received from Sh. Lalit, attached as ANNEX – 4 , already shared with committee through mail dt. 08.08.2022.</p> <p style="text-align: center;">Decision of 7th Meeting</p> <p>Mr Piyush Chaudhary from Heromoto corp. (on behalf of SIAM) informed the committee about the present status of draft regarding the braking efficiency of two-wheeler and promised to submit the proposal document to BIS in 3-month time.</p> <p>After 3-month time, chairman will hold a panel meeting to discuss the same.</p> <p>Further, formulation of Indian standard on braking efficiency based</p>	<p>Comment received from Sh. Lalit is attached in Annex – 4. In the 7th Meeting committee requested SIAM's views on comments received from Mr Lalit. Input from SIAM is awaited.</p> <p>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</p>	<p>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.</p> <p>Committee noted the observation submitted by MAHA India on braking efficiency.</p> <p>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.</p> <p>Recommendations of SIAM of 40% braking efficiency were accepted subject to ARAI comments as mentioned above.</p>

		<p>on AIS 128 and UNECE norms was discussed. Chairman requested SIAM view on Mr. Lalit’s comment. ICAT and ARAI requested chairman to share the I&C data available on braking efficiency.</p> <p>Chairman and Mr. Raj Rengrajan will share the data analysis with BIS. Chairman to hold a separate panel meeting along with SIAM, ICAT and ARAI and finalise the recommendations.</p>	<p>dated 21/12/2022. Draft document is attached at Annex 5</p> <p>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. respectively.</p> <p>Committee may deliberate on draft document and comments received.</p>	
3	Standardization under the subject	7th Meeting status	Suggestion from Dr Joshi	Dr Joshi briefed that sometimes in the field non standards light

	<p>“Intensity of Head Light”</p>	<p>Input from TUV is awaited.</p> <p>Sh. Raj Rengarajan from MAHA shared a presentation on experience on Intensity of head light subject. Same is attached as ANNEX-3</p> <p>Sh. Raj Rengarajan is requested to brief the committee.</p> <p style="text-align: center;">Decision of 7th Meeting</p> <p>1) Mr. Raj Rengrajan from MAHA presented the presentation to committee. Dr Madhusudan Joshi also put forth his views on the subject.</p> <p>Chairman pointed out that most of vehicle fail in headlight testing and cited numerous reasons for the same. Committee members including Icat and ARAI werenot in favour of any relaxation in terms tolerance. It was pointed out that none of the authorized workshops are equipped with Head light testers, where fleet owners could go for any checking or rectification. After deliberations, it was agreed that BIS may write a letter to MORTH and SIAM that all authorized work shop must install headlight tester for alignment of beam to ensure compliance to regulations.</p> <p>2) Regarding compliance of Rule to restrict use of High wattage bulbs in vehicles, it was felt that correlation between the wattage and intensity of headlight should be established since headlight testers have features for measuring the intensity of the bulb. Dr. Joshi from ICAT agreed to examine the subject and suggest suitable correlation in terms of intensity of light instead of</p>	<p>is awaited regarding suitable correlation in terms of intensity of light instead of wattage prescribed in Rule 62 of CMVR.</p>	<p>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.</p> <p>He pointed that this problem is mainly observed in high duty application. He presented a presentation and proposed 3 methods for solution.</p> <p>Presentation is enclosed.</p> <p>Committee deliberated on the proposals at length.</p> <p>Further committee requested ICAT to arrange demonstration of proposed set ups within 1 month, to demonstrate them to concern committee members.</p> <p>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.</p> <p>AVL also explained about their device which can be used to measure wattage, committee requested AVL also to demonstrate their</p>
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		wattage prescribed in Rule 62 of CMVR.		equipment as well when ICAT organizes the demonstration. AVL catalogue is also enclosed.
4	Mandatory & Optional Tests	<p align="center">7th Meeting status</p> <p>Draft paper received from MAHA is attached as ANNEX-4</p> <p>Sh. Raj Rengarajan is requested to brief the committee</p> <p align="center">Decision of 7th Meeting</p> <p>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.</p> <p>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.</p>	<p>A letter was sent to MoRTH for allowing BIS to share the data with committee members for standard formulation.</p> <p>No objection certificate is attached from MoRTH vide letter dated 02/03/23.</p> <p>Committee may deliberate further course of action.</p>	Please refer 3(a)
5	GSR 652 E	<p align="center">7th Meeting status</p> <p>ARAI's input was circulated to committee members through mail dt: 21.06.2022. attached as Annex 5</p> <p>Mr Ashish from ICAT through telephonic discussion dt. 12.06.2022 informed that, ICAT had submitted comments to MORTH on GSR 652 E and MORTH has issued new draft which is under consideration and not yet finalized. Further, requested to</p>	<p>GSR 797 is released.</p> <p>Committee may deliberate please</p>	Please refer 3 (b)

		<p>discuss this subject after finalization of MORTH document</p> <p>SIAM through mail dt. 26.08.22 Informed that they have no comment on GSR 652.</p> <p style="text-align: center;">Decision of 7th Meeting</p> <p>Committee noted the information given in the agenda.</p> <p>ARAI input was discussed during the meeting and Chairman pointed out that for sound level, limit is not prescribed properly. Mr. Santosh from ARAI requested I&C center data from chairman to analyze.</p> <p>Chairman assured to provide the data</p> <p>Further, Committee decided that analysis detail of ARAI can be discussed along with braking efficiency subject in panel meeting under convenorship of Chairman.</p>		
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3 (a) 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.

3(b) Comment received from Rosmerta Technologies Limited on GSR 797

Chairman, Members from ARAI, SMS Autoline, and Rosmerta were of the opinion to propose to MoRTH for making the change in GSR 797 in line with Rosmerta recommendation.

However, Shri Ansari countered the justification provided by Rosmerta & informed that M/s AVL manufactures such kind of equipment. As then date, they had supplied the equipment to various test labs and not to I&C centers, however the same equipment can be used for I&C center. Chairman requested AVL to send a complete detail of equipment supplied to ARAI and other test labs along with its purpose and its estimated price.

It was decided that a suitable letter will be sent to MoRTH after receipt of information from AVL within a month.

3(c) Comment received from SMS Autoline Equipments P Ltd on GSR 797

Sl. No	Clause/ Sub-clause/ para/ table/ fig. No. commented	Type of Comments (General/ Editorial/ Technical)	Proposed change	SMS comment	Decision
01	GSR 797 (E) Page no:45, Table - F	Technical	<p>Medium and Heavy Commercial vehicles</p> <p>Existing: Provision for lifting AND braking of roller for easy exit of vehicle</p> <p>Proposed Change: Provision for lifting OR braking of roller for easy exit of vehicle</p>	<p>a. Instead of lifting the vehicle, the locked roller is enough for the easy exit of the vehicle, Motors equipped with self -braking facility is sufficient for this purpose.</p> <p>b. Many manufacturers do not possess this type</p>	Please refer 3 (b)(i)
02	GSR 797 E Rule no:190 Table-F Item No:12-	TECHNICAL	<i>OBD scan tool shall be removed from the List of Equipment</i>	<i>OBD scan tool is not required for an Automated Testing Station since they are allowed to do the testing of the vehicles and not for servicing the vehicle. Moreover, all kinds of error will be displayed in the Vehicle Dashboard. Error Codes when examined on scan tool have to be</i>	A suitable letter may be framed by BIS for MoRTH in consultation with the Chairman.

Sl. No	Clause/ Sub-clause/ para/ table/ fig. No. commented	Type of Comments (General/ Editorial/ Technical)	Proposed change	SMS comment	Decision
	OBD Scan Tool Page no: 47			<i>referred for service purposes and not for test lane inspection</i>	
03	GSR 797 E Page No: 44 Notes (1)	GENERAL	Opportunity to apply for a re-test within thirty	Number days for Re-testing shall be increased	<i>BIS is not concerned.</i>
04	GSR 652(E) - Page 48 point rule 181 Point 6 (VI)	TECHNICAL	Existing: Photographs of vehicle and its Chassis and Engine number shall be captured by Global Positioning System enabled camera and shall be kept in a secured facility and uploaded on the electronic portal along with the tests data and report. Proposed change: Photographs of vehicle using GPS enabled camera	Taking the picture of Engine Number and Chassis Number is difficult task and for the in-use vehicle it will be not possible to visualize it	Considering the difficulties in taking pictures of Engine Number and that the camera cannot reach at every position for taking pictures, committee recommended that alternate provision (ex. Mobile) may be given in GSR 797. It was decided that BIS may write a letter to

Sl. No	Clause/ Sub-clause/ para/ table/ fig. No. commented	Type of Comments (General/ Editorial/ Technical)	Proposed change	SMS comment	Decision
					MoRTH mentioning the above recommendation in consultation with Chairman.

ITEM 4 CREATION OF WORKING GROUPS

Committee did not create any working group.

ITEM 5 NEW WORK ITEM PROPOSAL

Committee agreed to formulate an Indian Standard based on AIS 129 (End-of-Life Vehicles) and decided to send the draft document in P-Draft circulation of 30 days. Committee requested members to send their comments on draft document within circulation period.

ITEM 6 REVIEW OF PUBLISHED STANDARDS

6.1 The Committee noted the information given in agenda.

6.2 Committee allocated the standard as follows for review:

Sl. no.	IS	Title	Remarks	Committee Decision
1)	IS 8411: 1977	Specification for foot type inflators for road vehicles	Review was assigned to BIS officer and SIAM. Review report received from BIS officer, was circulated to committee members vide BIS portal dt. 23/11/2022. Comment received from BIS officer and draft document are attached at Annex- 8 and Annex 9 respectively.	Committee reallocated the review to M/s Manatec and M/s SMS

			<p>No comment is received from committee members.</p> <p>Committee may deliberate and decide for revision/reaffirmation/amendment.</p>	
2)	IS 4552(Part 1):1993	Automotive vehicles- Portable jacks for automobiles: Part 1 Mechanical jacks –Specification	<p>In the 7th Meeting, review was assigned to SIAM.</p> <p>Through mail dt. 16/03/2023 SIAM informed that they don't have any comments on these standards.</p> <p>Committee may deliberate further course of action on these documents.</p>	
3)	IS 4552(Part 2):1993	Automotive vehicles- Portable jacks for automobiles: Part 2 Hydraulic jacks –Specification		
4)	IS 13111:1991	Automotive vehicles- Garage equipment- Terms and definitions		
5)	IS 13353 : 1992	Automotive vehicles- Garage equipment- Technical parameters		
6)	IS 9057:1998	Automotive vehicles - Exhaust emissions - Carbon monoxide concentration at idling for vehicles equipped with spark ignition engines - Method of measurement'	In 6 th meeting of SC TED 31, committee decided that these standards shall be withdrawn.	Committee noted the information.
7)	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		

8)	IS 8457: 1977	Specification for tyre pressure gauges for automobiles (Pocket Type)	-	Committee allocated the review to M/s Manatech and M/s SMS
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ITEM 7 DATE FOR THE NEXT MEETING

Committee decided to hold next meeting in September 2023.

ITEM 8 ANY OTHER BUSINESS.

Chairman requested BIS secretariat to find out about the next CITA meeting who holds international conference on test lane equipment and their standards. They are the only body recognized internationally for these purposes. We should send a delegation to attend their conference .

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