

**AUTOMOTIVE INDUSTRY STANDARD**

**Procedure for Establishing Whole Vehicle  
Safety Conformity of Production  
(WVSCoP) for L, M, N category of  
vehicles, E-rickshaws & E-carts**

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UNDER  
CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE

SET-UP BY  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS  
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## INTRODUCTION

The Government of India felt the need for a permanent agency to expedite the publication of standards and development of test facilities in parallel when the work on the preparation of the standards is going on, as the development of improved safety critical parts can be undertaken only after the publication of the standard and commissioning of test facilities. To this end, the erstwhile Ministry of Surface Transport (MoST) has constituted a permanent Automotive Industry Standards Committee (AISC) vide order No. RT-11028/11/97-MVL dated September 15, 1997. The standards prepared by AISC will be approved by the permanent CMVR Technical Standing Committee (CTSC). After approval, the Automotive Research Association of India (ARAI), Pune, being the secretariat of the AIS Committee, will publish this standard.

The foundation principle of this standard is that every vehicle, system(s), or part approved under CMVR must be so manufactured/imported as to conform to vehicle type approved by meeting the applicable requirements under CMVR. Further, in order that the procedure for monitoring conformity of production as envisaged in CMV rule 126A has been correctly implemented and functions properly, vehicles manufactured / imported in India would need to be regularly checked by the authority designated for that purpose.

In preparing the standard the panel studied the COP procedures used in automotive legislation in developed markets where practices ranging from self-certification to audited certification exist. The current Indian procedure (TAP 115) which mandates a supervised physical testing regime for verifying conformity of production of vehicle/engine tailpipe and crankcase emissions under CMVR 115 and requirements for performance of the vehicle safety components under AIS-037 were also considered. It was concluded that a comprehensive procedure consisting of supervised inspection, installation checks and physical tests on randomly selected vehicles would provide the highest level of assurance to all stakeholders. This standard specifies such a procedure.

The practices followed for referring to AIS and BIS standards in this standard are given below to serve as a guidance to correct interpretation of the requirements and also to support correct formulation of future amendments and revisions to this standard

1. The overarching principle is that a vehicle must comply with the applicable CMV Rules on the date of its manufacture irrespective of whether this standard has been appropriately updated or not. This is prescribed in Clause 9.1 of this standard.
2. Year, Amendment Numbers and Revision Number of the referred standards are not quoted in column 3 of Table 5 (column 2 for Tables 5.1 and 5.2).
3. Year, Amendment Numbers and Revision Numbers are quoted in column 4 of Table 5 (column 3 for Table 5.1 and 5.2) because clause numbers for requirements could vary with the version /edition of the referred standard.
4. Year, Amendment Numbers and Revision Numbers are also quoted in column 3 of Table 5 (column 2 for Tables 5.1 and 5.2) if different versions of the standard are applicable to different categories of vehicles or in the case of transitional provisions.
5. Dual reference to AIS and BIS standards are made in those cases where they are slightly different and test agencies and applicant need to use both for compliance purposes.

The AISC panel and the Automotive Industry Standards Committee (AISC) responsible for preparation of this standard are given in Annexure E and Annexure F respectively.

**Procedure for Establishing Whole Vehicle Safety Conformity of Production (WVSCoP) for L, M, N category of vehicles, E-rickshaws and E-carts**

**1.0 SCOPE**

- 1.1 This standard is applicable to L, M, N category of vehicles, E-rickshaws and E-carts type approved under CMVR.
- 1.2 Vehicles which are exempted by the Govt. of India from Type Approval for compliance to Central Motor Vehicle Rules 1989 (CMVR) are exempted from the requirements of this standard (Example: vehicles imported under DGFT rules and Defense vehicles).
- 1.3 Vehicles which are exempted from CoP requirements under CMVR are exempted from the requirements of this standard.

**2.0 DEFINITIONS**

For the purpose of this standard, following definitions shall apply.

- 2.1 **Sample:** Sample is the test vehicle model/variant selected randomly by the test agency for evaluation against this standard.
- 2.2 **WVSCoP Family:** A pre-identified group of vehicle models and variants to which the test results and pass-fail decisions observed on the sample model / variant shall be extended.
- 2.3 **Manufacturer:** means the person or body who is responsible to the type approval authority for all aspects of the type-approval process and for ensuring conformity of production.
- 2.4 **Importer:** means a person or body importing vehicles for sale in India and who is responsible to the type approval authority for all aspects of the type-approval process and for ensuring conformity of production.
- 2.5 **Nodal Agency:** The arm of the Government of India responsible for implementation of the CMV Rules 1989, presently the Ministry of Road Transport & Highways.
- 2.6 **Applicant** means manufacturer and/or importer who applies for approval as per this standard.
- 2.7 **Test Agency** is an organization specified in Rule 126 of CMVR for testing and certification of compliance to the provisions of CMVR.
- 2.8 **WVSCoP Period** means the period in which the vehicles manufactured / imported by vehicle manufacturer and/or importer shall be verified for one cycle of conformity to the provisions of this standard. It shall commence at the start of Financial Year (presently April – March).
- 2.9 **Small volume vehicle** is a vehicle which including its base model and its variants, manufactured in or imported into India has a volume of less than 250 vehicles in any consecutive period of six months during WVSCoP period.

### 3.0 APPLICATION FOR WVSCoP VERIFICATION

3.1 The application for approval of a WVSCoP family for compliance to the safety requirements in this standard shall be submitted by the vehicle manufacturer and/or importer along with the information specified in the formats provided in clause 10 within three months of the start of the WVSCoP period. Along with this application, the details of WVSCoP family, for which application is being made shall be submitted as per 4.2.1.1.

In case the manufacturer and/or importer foresee that the application as per this clause cannot be submitted within time period specified therein, he should intimate the test agency that the application submission would be delayed. In this case, test agency may allow the manufacturer and/or importer one additional month for submission of application. If this communication is not received within three months or if the application is not received within four months from the manufacturer and/or importer, then test agency shall inform the nodal agency that the manufacturer and/or importer has not applied for a WVSCoP family due for WVSCoP verification.

#### 3.2 Selection of Test Agency for conducting the WVSCoP

3.2.1 In the case of first WVSCoP, if any WVSCoP family being offered has models/ variants type approved by only one test agency the manufacturer and /or importer shall apply for WVSCoP to that test agency.

3.2.2 If any WVSCoP family has models/ variants type approved by more than one test agency, then the manufacturer and/or importer shall apply to any one among the several type approving test agencies (see clause 2.7) with copy of application to other concerned test agency/agencies as applicable.

3.3 The manufacturer and/or importer may apply for change to any test agency provided:

3.3.1 It is the second or later WVSCoP verification for that WVSCoP family and,

3.3.2 The application is made at least one month prior to the start of the WVSCoP period, and

3.3.3 The manufacturer and/or importer obtains an authentication from the previous WVSCoP agency for the change with relevant documents referred in clause 10, and

3.3.4 The new test agency may if necessary consult the previous WVSCoP test agency on any matters relevant to the application in the course of the WVSCoP verification.

3.4 Once a manufacturer and/or importer has applied to a test agency for WVSCoP verification for a WVSCoP family, the manufacturer and/or importer shall not transfer the application to any other test agency unless the ongoing WVSCoP verification process including any set of actions arising consequent to a WVSCoP failure are completed.

3.5 The manufacturer and/or importer shall co-ordinate timely with the test agency for finalizing a time schedule for conducting and completing the WVSCoP verification.

- 3.6 The manufacturer and/or importer shall inform the test agency timely about any expected stoppage, resumption or commencement of manufacturing/import of specific models /variants during the WVSCoP period so that test agency can respond suitably with appropriate rescheduling of WVSCoP verification.
- 3.7 In case of resumption of production / import of a vehicle model / variant after a stoppage of production/import of a model /variant, the manufacturer and/or importer shall inform the test agency within two weeks of the resumption of production/import. The test agency to be informed shall be the one conducting an ongoing WVSCoP verification of the WVSCoP family to which the model/variant belongs or, if WVSCoP verification is not ongoing, then to the test agency which has type approved the model / variant. The WVSCoP period for this resumed model/variant shall be as specified in clause 5.3.4

#### 4.0 GENERAL REQUIREMENTS

- 4.1 **Frequency of WVSCoP tests:** The test agency to whom an application has been made under clause 3.0 above shall, in accordance with the requirements laid down in clause 6.0 of this standard, conduct tests on vehicles drawn from the manufacturing plant/import premises once in two years to verify whether these vehicles conform to the specified requirements.

**Note:** As required by the stipulation of GSR 393 dated 7<sup>th</sup> Jun 2021, the period for first WVSCOP cycle shall start from 7<sup>th</sup> December 2022. It shall end on 31<sup>st</sup> March 2025. The subsequent WVSCOP cycles shall commence at the start of the Financial Year and shall have a frequency of once in two years as defined in clause 4.1.

- 4.2 **Creation of WVSCoP families and addition or deletion of a model/ variant to them:**

- 4.2.1 **Creation of WVSCoP families:**

- 4.2.1.1 Every manufacturer and/or importer shall submit the initial intended list of WVSCoP families and its composition as per the format given in Table.1 below to any test agency mentioned in clause 3.2 before the beginning of WVSCoP period or at the latest while submitting the WVSCoP application referred in clause no. 3.1.

This list shall cover all the type approved models / variants manufactured or imported for sale in India. At least one list each shall be given for every clause from clauses 5.5 to 5.10 (as applicable to the manufacturer and/or importer) for the categories of vehicles covered therein.

The test agency shall authorize the list of WVSCoP families and its composition regarding its compliance to the requirements specified in 4.2.1.2 at the commencement of WVSCoP period.

Any changes in the details of WVSCoP families (see Table 1) arising out from clauses 4.2.2 and 4.2.3 shall be intimated to the test agency which approved the WVSCoP list originally or to the test agency which is carrying out COP for that concerned WVSCoP family.

**Table 1: Details of WVSCoP Families**

Sl. No.	WVSCoP Family name(s)	Base Model name(s)	Variant name(s)	CMVR Type Approval Certificate (see note 1)		Vehicle Category as per AIS-053/ IS 14272	Plant(s) / premises produced or imported	Type of power train (CI / SI /Hybrid electric/ Full Electric) (For L1, L2, L5, E-rickshaw, E-cart, M1 vehicles and M2/N1 derived from M1)	<u>Engine Capacity in cc (for ICE) / Motor power in kW</u>	GVW in Tonnes (for N, M2, M3 category vehicles)
				No	Date					

4.2.1.2 The models included in a WVSCoP family shall be as per the following -

- a) They shall qualify to the criteria for WVSCoP definition given in clauses 5.5 to 5.10. Further, all the models in one WVSCoP family shall be from a single parameter range as specified in clauses 5.5 to 5.10 (for example GVW range, engine capacity range, etc).
- b) A WVSCoP family shall contain models/variants of only one manufacturer and/or importer. It shall be permissible for a WVSCoP family to contain models/variants of one manufacturer who is also importer provided that the imported model and model produced in India are identical and type approval certificates for both of them are held by same manufacturer and/or importer.
- c) Maximum number of models (i.e., base models in CMVR certificates) in a WVSCoP family shall not exceed eight.

#### 4.2.2 Addition of models to a WVSCoP family

4.2.2.1 Any new vehicle model(s)/variant(s) which is type approved after the date of implementation of the WVSCoP rule shall be added to an existing WVSCoP family or used to initiate a new WVSCoP family as applicable using the following guidelines:

4.2.2.1.1 A new WVSCoP family shall be initiated in case with the addition of the new model, the family no longer complies with para 4.2.1.2 (c).

4.2.2.1.2 Further it shall be permissible for the new WVSCoP family so created to be merged with the existing WVSCoP family and regrouped as two WVSCoP families for balancing the number of models in both the WVSCoP families provided the existing WVSCoP family has not already undergone WVSCoP selection/testing. If however, selection / testing has already been undertaken, such regrouping shall be permitted only in the next WVSCoP period.



- 4.2.2.1.3 If on the addition of new model(s) to any of the existing WVSCoP families, the family fails to meet the criteria prescribed in clauses 5.5 to 5.10, a new family shall be initiated.
- 4.2.2.2 If a model/variant is added to an existing WVSCoP family, on which WVSCoP verification is yet to be undertaken in the prevailing WVSCoP period, then the vehicle shall be included in the list for random selection for WVSCoP verification in the prevailing WVSCoP period.
- 4.2.2.3 If a model/variant is added to an existing WVSCoP family on which WVSCoP verification is either completed or in progress in the prevailing WVSCoP period, then the vehicle shall be included in the list for random selection for WVSCoP verification in the next WVSCoP period

**4.2.3 Deletion of models from existing WVSCoP family**

If the production of a model/variant is permanently discontinued before the random selection for the WVSCoP cycle, then the manufacturer and/or importer shall take up with the test agency approving WVSCoP family list for removal of the model/variant from the list. However, the consequences of pass/ fail decision obtained on this WVSCoP family shall be applicable to the vehicles of this model/variant produced, if any, during that the prevailing WVSCoP cycle.

- 4.3 If the commencement of production or import of a new model or its variant or new WVSCoP family is less than two months prior to the beginning of the next sequential WVSCoP period, the newly added models and/or variants or family shall be excluded for WVSCoP for the current WVSCoP period.
- 4.4 **Other Exemptions:** A batch of New or modified models/variants intended for field trials are exempted from WVSCoP verification provided their total number does not exceed 500 annually and are not sold to customers.
- 4.5 **WVSCoP of multi-stage vehicles:** In case of multi-stage type approval and manufacturing, the manufacturer and/or importer of each stage shall be responsible for the conformity of production of the systems or components added at the stage completed by him. The manufacturer and/or importer who modifies or replaces the approved components or systems fitted in the previous stages shall be responsible for the conformity of production of the modified or replaced components / systems used for completion of vehicles.

**4.6 Applicability of Tests and Criteria for Extension of Approval:**

The selected model/variant shall be subjected to all tests specified in clause 6.0 applicable to that model/variant as per CMV Rules.

The selected model/variant shall be exempted from a test if the test is not applicable to the selected model/variant as per the CMV Rules.

However, the selected model/variant shall be subjected to those tests which were exempted during type approval based on extensions of results from another (worst case criteria) vehicle.

**5.0 WVSCoP FAMILIES & CRITERIA FOR EXTENSION OF APPROVAL**

5.1 Reserved.

**5.2 Treatment of small volume vehicles**

5.2.1 In case a manufacturer and/or importer produces / imports only small volume vehicles, all such small volume vehicle models/variants shall be combined into one WVSCoP family.

5.2.2 In case a manufacturer and/or importer produces / imports a mix of both small volume vehicles and other (non-small) vehicles, the small volume vehicles shall be included in the WVSCoP families created from the non-small families as per the defining characteristics of the WVSCoP families given in clauses 5.5 to 5.10 below.

5.2.2.1 All small volume vehicles which fall outside such WVSCoP families shall be combined into one separate WVSCoP family.

**5.3 Selection of samples and applicability of test results**

5.3.1 The test agency shall first decide which model or variant is to be selected for sampling from a given WVSCoP family. Test agency shall then pick up one sample vehicle randomly of the vehicle model / variant so chosen, from any one of the plants / importer's premises, where that model/variant is in production or imported using a random number generating software application subject to availability of the particular vehicle in the plant/import premises and subject it to the specified tests. It shall be permissible for the test agency to select a model/variant type approved by a different test agency. With suitable agreement between vehicle manufacturer and/or importer and test agency, vehicles chosen for CoP for tailpipe emissions under rule 115 of CMVR may also be used for WVSCoP verification.

5.3.2 In case the sample vehicle model/variant chosen by the test agency from the WVSCoP family for WVSCoP verification is produced in more than one manufacturing plant or imported in more than one premises, the test results and verifications observed on this sample shall be extended to that models/variants included in that family and produced in all such plants/premises.

5.3.3 A manufacturer and/or importer may define additional number of WVSCoP families than necessitated by clause 4.2.1.2. The criteria (such as grouping based on plants, etc.) used by the manufacturer and/or importer for such redistribution of models into additional number of WVSCoP families shall be at the discretion of manufacturer and/or importer. The manufacturer and/or importer shall include the explanation of the criteria for creation of additional WVSCoP families at the end of Table 1. The test agency shall select one sample vehicle randomly out of the vehicle models / variants, from each one of these families for evaluation.

5.3.4 If the model / variant chosen in 5.3.1, is temporarily not in production at the time of random selection, it shall remain as a WVSCoP family member for the prevailing and future WVSCoP periods. In such cases for continuing with the WVSCoP the following options may be followed:

- a. Adjust the WVSCoP selection schedule till that model / variant is in production, provided if it does not affect the WVSCoP time frame.
- b. Any other model / variant from the same CMVR certificate can be randomly selected.
- c. If that particular model / variant is in production in another plant and that plant is included in the same family, a sample may be selected from that plant.

5.3.5 In case of option 5.3.4(b), the consequences of pass /fail decision obtained on the selected vehicle shall be also applicable to the model / variant temporarily out of production (see clause 8.0).

**5.4 WVSCoP Family Nomenclature**

Every manufacturer and/or importer shall specify a family nomenclature for each WVSCoP family included in his application for WVSCoP evaluation. However, each family name used by the manufacturer shall be preceded by the “Range Pre-fix” as specified in clauses 5.5 to 5.10.

**5.5 Criteria for defining WVSCoP Families for M1 (including N1 and M2 derived from M1) category vehicles**

5.5.1 Pivotal parameter governing WVSCoP family will be engine and all engines including those engines fitted in hybrid electric vehicles in one WVSCoP family shall meet the following conditions:

5.5.1.1 CI & SI engines to be treated as separate family.

5.5.1.2 Capacity differences of the engines shall be less than or equal to 20 % (the highest capacity shall be less than or equal to 1.2 times the lowest capacity)

5.5.2 An N1 or M2 vehicle which has been derived from an M1 vehicle shall be deemed to belong to same WVSCoP family as the parent M1 vehicle.

5.5.3 All vehicles with full electric propulsion of M1 category (including M2 & N1 category derived from M1) shall be treated as one single WVSCoP family.

5.5.4 The Range-prefix for M1 category vehicles shall be as given in Table 2a below:

**Table 2a. Range Pre-fixes for M1 category vehicles (including M2 & N1 category derived from M1)**

<b>Categories</b>	<b>Range Pre-fixes</b>
M1 – SI	M1A
M1 – CI	M1B
M1 – Full Electric propulsion	M1Z

**5.6 Criteria for defining WVSCoP Families for N1, N2 and N3 category vehicles**

5.6.1 WVSCoP families for N1, N2 & N3 category vehicles shall be based on GVW ranges as given in Table 2b.

**Table 2b GVW ranges for WVSCoP Family creation for N1, N2 and N3 category vehicles**

GVW range, in Tonnes	Category	Range Pre-fixes
$GVW \leq 3.5$	N1	N1A
$3.5 < GVW \leq 7.5$	N2	N2A
$7.5 < GVW \leq 12.0$	N2	N2B
$12.0 < GVW \leq 18.5^*$	N3 2 Axle Rigid	N3A
$18.5^* < GVW \leq 28^*$	N3 Multi Axle Rigid	N3B
$28^* < GVW \leq 49.0^*$	N3 Multi Axle Rigid	N3C
$30^* \leq GCW \leq 55.0$	N3 Tractor	N3D

*\* In cases where vehicle models have variants with pneumatic suspension with 1 tonne additional weight per axle, those variants with pneumatic suspension will be considered to be in the same WVSCoP family as the vehicle model(s) with mechanical suspension.*

- 5.6.2 Vehicles shall be included in these gross vehicle weight families irrespective of their energy source: fossil fuels, bio-fuels, electricity, solar etc. or a mixture of these.
- 5.6.3 If the variant of a model, because of a higher or lower GVW rating falls in an adjoining WVSCoP family, it shall be permissible to include it in the same family as the parent model.

#### 5.7 Criteria for defining WVSCoP Families for M2 and M3 category vehicles

- 5.7.1 WVSCoP families for M2 & M3 category vehicles shall be as based on GVW ranges given in Table 3

**Table 3 GVW ranges for WVSCoP Family creation for M2 and M3 category vehicles**

GVW range, in Tonnes	Category	Range Pre-fixes
$GVW \leq 5.0$	M2	M2A
$5.0 < GVW \leq 7.5$	M3 2 Axle Rigid	M3A
$7.5 < GVW \leq 12.0$	M3 2 Axle Rigid	M3B
$12.0 < GVW \leq 18.5^*$	M3 2 Axle Rigid	M3C
$18.5^* < GVW$ or GCW	M3 Multi Axle & Articulated	M3D

*\* In cases where vehicle models have variants with pneumatic suspension with 1 tonne additional weight per axle, those variants with pneumatic suspension will be considered to be in the same WVSCoP family as the vehicle model(s) with mechanical suspension.*

- 5.7.2 Vehicles shall be included in these gross vehicle weight families irrespective of their energy source: fossil fuels, bio-fuels, electricity, solar etc. or a mixture of these.
- 5.7.3 If the variant of a model, because of a higher or lower GVW rating falls in an adjoining WVSCoP family, it shall be permissible to include it in the same family as the parent model.

5.8 **Criteria for defining WVSCoP Families for L2 & L1 category vehicles:**

5.8.1 WVSCoP families for L2 category vehicles shall be based on engine capacity ranges as given in Table 4a. Within the following engine capacity ranges, CI and SI vehicles shall form separate families.

**Table 4a WVSCoP Family Definition for L2 category vehicles**

Engine Capacity range, cc	Range Pre-fixes
Engine Capacity $\leq$ 125	L2A for SI vehicles & L2B for CI vehicles
125 < Engine Capacity $\leq$ 350	L2C for SI vehicles & L2D for CI vehicles
350 < Engine Capacity	L2E for SI vehicles & L2F for CI vehicles
All Hybrid vehicles (irrespective of engine cc)	L2Y
Full Electric vehicles	L2Z

5.8.1.1 All vehicles with full electric propulsion of L2 category shall be treated as one single WVSCoP family.

5.8.2 WVSCoP families for L1 category vehicles produced/imported by a manufacturer and/or importer, shall be as given in Table 4b. CI and SI vehicles shall form separate families. The Range-prefix for L1 category vehicles shall be as given below:

**Table 4b WVSCoP Family Definition for L1 category vehicles**

Categories	Range Pre-fixes
L1 – SI vehicles	L1A
L1 – CI vehicles	L1B
L1 – Full Electric propulsion	L1Z

5.8.2.1 All vehicles with full electric propulsion of L1 category shall be treated as one single WVSCoP family.

5.9 **Criteria for defining WVSCoP Families for L5 category vehicles:**

5.9.1 In case of IC engine vehicles, the WVSCoP family shall be based on engine capacity with following criteria:

5.9.1.1 The engine capacity differences of the engines shall be less than or equal to 20% (the highest capacity shall be less than or equal to 1.2 times the lowest capacity)

5.9.2. In case of electric vehicles, all L5 category models/variants shall be treated as one WVSCoP family.

5.9.3 All L5M and L5N vehicles type approved for a manufacturer and/or importer shall be included in one common L5 WVSCoP family subject to conditions specified in clauses 5.9.1.1 and 5.9.2. However, subject to clauses 5.9.1, CI and SI vehicles shall form separate families.

5.9.4 The Range-prefixes for L5 category vehicles shall be as given in Table 4c given below:

**Table 4c Range Pre-fixes for L5 category vehicles**

Categories	Range Pre-fixes
L5 – SI	L5A
L5 – CI	L5B
L5 – Full Electric propulsion	L5Z

5.10 **Criteria for defining WVSCoP Families for L7 category vehicles:**

5.10.1 All the quadricycles (L7 category vehicles) manufactured / imported by a manufacturer and/or importer shall be included in one family. The Range-prefix for L7 category vehicles shall be L7A.

5.11 **Criteria for defining WVSCoP Families for E-rickshaws & E-carts:**

5.11.1 All the E-rickshaws and E-carts manufactured / imported by a manufacturer and/or importer shall be included in one family. The Range-prefix for these category vehicles shall be 'RCZ'.

## 6.0 EVALUATIONS FOR WVSCoP VERIFICATION

6.1 The inspections, installation checks and physical tests to be conducted for WVSCoP verification are given in Table-5 below.

**Table 5: WVSCoP Requirements**

Sl. No	Parameter	Reference standard (see notes 2&3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quadri-cycle)	E-rickshaw & E-cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)	Remarks
1	Lighting & Light signaling devices	AIS-008 / AIS-009	HLLD - Check for provision of fitment of device as approved in TA,	NA	NA	NA	NA	Y	Y	
			Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)	Y	Y	Y	Y	Y	Y	Fitment & Marking of optional lamps to be checked only on those models/variants where the TA shows provision of such parts.
2	Reflective tape	AIS-090	Marking as per AIS-037	NA	Y	NA	Y	NA	Y	
3	Rear Marking plate (For Trucks Only)	AIS-089	Marking as per AIS-037	NA	NA	NA	NA	NA	Y (Trucks Only)	(See Note 6 below)

**AIS-017(Part 6)**

Sl. No	Parameter	Reference standard (see notes 2&3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quadri-cycle)	E-rickshaw & E-cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)	Remarks
4	Horn	IS 15796	dB(A) level test as per Clause 6 of IS 15796:2008	Y	Y	Y	Y	Y	Y	
		IS 1884	Marking as per AIS-037							
5	Rear View Mirror	AIS-001	Marking as per AIS-037	Y	Y	Y	NA	Y	Y	
		AIS-002	Check for class of Mirrors & marking as per TA	Y	Y	Y	NA	Y	Y	
			Check for mirror mounting arrangements as per TA	NA	NA	NA	NA	NA	Y	For E-rickshaw & E-Cart, check only whether mirror is fitted. (Rule 125(2))
6	Windscreen wiping	IS 15802 / IS 15804 / AIS-045	Wiping frequency check	NA	Y (If fitted as per TA)	Y	NA	Y	Y	Check only wiping frequency as applicable
7	Safety glass	IS 2553 (Part 2)	BIS Marking or marking as per AIS-037	NA	Y (if fitted as per TA)	Y	Y (if fitted as per TA)	Y	Y	
8	Passenger handholds / Pillion hold	AIS-046 / IS 14495	Whether Fitted	Y	Y	Y	NA	Y (if applicable as per AIS-046)	Y	
9	Spray Suppression Device	AIS-013 / AIS-103	Marking as per TA	NA	NA	NA	NA	NA	Y (only for trucks)	
10	Brake	IS 11852 / IS 15986 / AIS 151 /  IS 14664, IS 14664  AIS-049 for electric vehicles	Two Wheelers (L1 & L2) and three wheelers (L5):  Refer Table 5.1 below  4 wheelers (M&N) & Quadricycles (L7):  Refer Table 5.2 below.	Y	Y	Y	NA	Y	Y	

**AIS-017(Part 6)**

Sl. No	Parameter	Reference standard (see notes 2&3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quadri-cycle)	E-rickshaw & E-cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)	Remarks
11	Pass by Noise	IS 3028 AIS-049 for electric vehicles	Test as per Clause 7.0 to 11.0 of IS 3028:1998	Y	Y	Y	NA	Y	Y	Applicable limit shall be 1 dB(A) more than the limit specified for type approval test
12	Steering effort	IS 11948	Steering effort test as per Clause 5.2.4 of IS 11948:2010	NA	Y (If fitted with Steering wheel)	Y	NA	Y	Y	
13	Tyre	IS 15627 / IS 15633 / IS 15636	BIS Marking or marking as per AIS-037, as applicable	Y	Y	Y	NA	Y	Y	
14	RUPD	IS 14812	Mounting as per approved layout	NA	NA	NA	NA	NA	Y (if fitted as per TA)	
15	SUPD	IS 14682	Mounting as per approved layout	NA	NA	NA	NA	NA	Y (if fitted as per TA)	
16	Seat belt	IS 15140	Marking as per AIS-037	NA	NA	Y	NA	Y	NA	
			Fitment check	NA	NA	Y	NA	Y	Y	
17	CNG / LPG Vehicles	AIS 024 / AIS-025 / AIS-026 / AIS-027 / AIS-028	Serial No. of the Gas cylinder as per PESO approval, Marking as per AIS-037 of CNG Pressure Regulator, LPG Pressure regulator/ Vapourizer	Y	Y	Y	NA	Y	Y	
18	Traction Batteries	AIS-048	Marking as per AIS-037	Y	Y	Y	Y	Y	Y	Applicable to all those vehicles which need to comply with AIS-048 for type approval.  (See Note 6 below)
19	SLF	AIS-018	Testing to verify lock speed as per clause 5.7.3.4.1 of AIS-018 :2001	NA	NA	NA	NA	Y (If applicable as per TA)	Y	(See Note 5 below)
20	FUPD	AIS-069	Mounting as per approved layout	NA	NA	NA	NA	NA	Y, as applicable, if fitted	



**AIS-017(Part 6)**

Sl. No	Parameter	Reference standard (see notes 2&3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quadri-cycle)	E-rickshaw & E-cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)	Remarks
21	Protection against electric shock	AIS-038 / AIS-038 (Rev.1) as applicable	Clause 3.2 of AIS-038 / Clause 3.1 of AIS-038 (Rev.1):2015	Y	Y	Y	Y	Y	Y	Applicable to all those vehicles which need to comply with AIS-038/AIS-038 (Rev.1) for type approval.
22	Washing Test	AIS-038 / AIS-038 (Rev.1) as applicable	Clause 3.5.1 of AIS-038 / Clause 3.5.1 of AIS-038 (Rev.1):2015	Y	Y	Y	Y	Y	Y	Applicable to all those vehicles which need to comply with AIS-038 /AIS-038 (Rev.1) for type approval.
23	Measurement of Net Power and Maximum Speed	AIS-041	Clause 5.3 & 6.0 of AIS-041: 2003	NA	NA	NA	Y	NA	NA	Applicable to all those types of E-Rickshaws & E-Carts which need to comply with AIS-041 for type approval.  Max. net power must not exceed 2000W.  Max speed shall not exceed 25 kmph

- Note:** 1) The components supposed to be fitted as per type approval certificate of the model shall be fitted. For “if fitted” items mentioned in table above, compliance shall be verified to the respective standard, only if the particular item is fitted in the vehicle.
- 2) The standards listed above are without ‘year’ and revision references. The level of applicability of the standards shall be as specified in clause 9.1 and the level applied shall be indicated in the WVSCoP test reports/certificate.
- 3) The indicated standards shall be as applicable to the categories of the vehicles indicated in columns 5 to 10 above.
- 4) Any electric vehicle manufactured (as permitted by advisory no RT-11036/72/2017-MVL dated 12th August 2020 issued by Ministry of Road Transport & Highways) for sale & registration without traction batteries and chosen as test samples under this standard shall be fitted by the applicant with traction batteries approved for the relevant model under CMVR before offering them to the test agency for evaluation.
- 5) If any vehicle variant selected for evaluation in the premises of the manufacturer/importer/retrofitter has been type approved with SLF requirement but the SLF on the vehicle variant selected is not normally activated in the premises then the concerned manufacturer/importer/retrofitter shall specifically set the SLF on the selected vehicle for evaluation as per this standard.
- 6) While Rear Marking Plate (Row No 3 in Table 5) and Traction Batteries (Row No 18 in Table 5) have been included in AIS 037, the requirements of AIS 037 as specified in column (4) of these said rows shall remain inapplicable till such time as these items are included in the table of CMV Rule 124 sub-rule (4) by a Government notification.

Table 5.1 Details of brake testing for two &amp; three wheelers

S No.	Condition	Two Wheelers (L1, L2 category)	Three Wheelers (L5 category)
1	If type approval has been issued based on IS 14664-1999	<p><b>Tests shall be as per 8.1.1 with following criteria:</b></p> <p>1. Sl. No, (i), (ii), (iv) and (v) of Table 1 of IS 14664:1999.</p> <p>Sl. No, (iii) and (vi) of Table 1 of IS 14664:1999 if it has been carried out for type approval based on clause 12.9 of IS 14664 : 1999.</p>	<p><b>Tests as per 8.1.1 with following criteria:</b></p> <p>1. With two independent controls:</p> <p>a) Sr. No. (i) &amp; (iii) of Table 2. of IS 14664:1999</p> <p>b) Sr. No. (ii) &amp; (iv) if it has been carried out for TA based on the clause 12.10. of IS 14664:1999</p> <p>2. With one control acting on all three wheels: Sr. No. (v) of Table 2 of IS 14664:1999</p>
2	If type approval has been issued based on IS 14664-2010	<p>1. <b>For 3-1 category: Test shall be as per 5.3.3. of IS 14664:2010</b> Sl. No. (i), and (vi) of Table 1 of IS 14664:2010 in laden condition</p> <p>2. <b>For 3-3 category: Test shall be as per 5.3.3. of IS 14664:2010</b> Sl. No. (iii) and (viii) of Table 1 of IS 14664:2010 in laden condition .</p> <p>3. <b>If with CBS:</b></p> <ul style="list-style-type: none"> <li>• With operating the control actuating both brakes tests shall be as per Table 1 of IS 14664:2010 in laden condition: <ul style="list-style-type: none"> <li>a) Sr. No. (xi) of Table 1 of IS 14664:2010 for category 3-1</li> <li>b) Sr. No.(xii) of Table 1 of IS 14664:2010 for category 3-3,</li> </ul> </li> <li>• With operating the other control, <ul style="list-style-type: none"> <li>a) if it actuates brake on front wheel test shall be as per: Sl no, (i) and (iii) of Table 1 of IS 14664:2010.</li> <li>b) if it actuates brake on rear wheel tests shall be as per: Sl no, (vi) and(viii) of Table 1 of IS 14664:2010.</li> </ul> </li> </ul>	<p>1. <b>For 3-2 category:</b> Test shall be as per 5.3.3 of IS 14664:2010</p> <p>a) If independent controls are provided then, Sr. No. (ii) &amp; (vii) of Table 1 of IS 14664:2010 in laden condition.</p> <p>b) If Single control is provided then Sr. No. (xi) of Table 1 in laden condition.</p> <p><b>For 3-5 category:</b> Test shall be as per 5.3.3 of IS 14664:2010 : Sl. No. (xiv) of Table 1 in laden condition;</p>

**Table 5.2 Details of brake testing for 4 Wheelers (M & N) and Quadricycles (L7)  
(as applicable under CMV rule 96)**

Sl. No.	Conditions	Applicable Brake test clauses
1	If type approval has been issued based on IS 11852 (Part 3) :2001	<p>Test shall be conducted only under the conditions mentioned in the following clauses of IS 11852(Part 3):2001</p> <ol style="list-style-type: none"> <li>1. Service Brake - Type P Test (Ordinary Performance Test with Brakes Cold) with engine disconnected as per clause 3.2.2.1 under laden conditions as per clause 3.2.1.2(a).</li> <li>2. Secondary Braking System test with engine disconnected as per clause 4.1.2 under laden conditions as per clause 3.2.1.2 (a).</li> </ol>
2	If type approval has been issued based on IS 15986	<p>Tests shall be conducted only under the conditions mentioned in the following clauses of IS 15986: 2015</p> <ol style="list-style-type: none"> <li>1. Service Brake - Type 0 Test (Ordinary Performance Test with Cold Brakes) with engine disconnected as per clause B-1.4.2 under laden conditions as per clause B-1.4.1.2. (a)</li> <li>2. Secondary Braking System test with engine disconnected as per clause B-2.2 under laden conditions as per clause B-1.4.1.2. (a)</li> </ol>
3	If type approval has been issued based on AIS-151	<p>Tests shall be conducted only under the conditions mentioned in the following clauses of AIS-151: 2018</p> <ol style="list-style-type: none"> <li>1. Service Brake - Type 0 Test (Ordinary Performance test with Cold Brakes) with engine disconnected as per clause B-1.4.2 under laden conditions as per clause B-1.4.1.2.1.</li> <li>2. Secondary Braking System test with engine disconnected as per clause B-2.2 under laden conditions as per clause B-1.4.1.2.1.</li> </ol>
4	If type approval has been issued based on IS 11852:2013	<p>Tests shall be conducted only under the conditions mentioned in the following clauses of IS 11852:2013</p> <ol style="list-style-type: none"> <li>1. Service Brake - Type 0 Test (Ordinary Performance test with Cold Brakes) with engine disconnected as per clause C-1.4.2 under laden conditions as per clause C-1.4.1.2.1.</li> <li>2. Secondary Braking System test with engine disconnected as per clause C-2.2 under laden conditions as per clause C-1.4.1.2.1.</li> </ol>

**7.0 SAMPLING PLANS AND TEST PASSING CRITERIA**

- 7.1 The test agency shall inform the manufacturer and/or importer not more than two days in advance its time schedule for the random selection from the manufacturer's and/or importer's premises. If the manufacturer and/or importer is unable to adhere to the proposed time schedule because of reasons such as zero or inadequate number of manufacture or import of the chosen model/variant, then the time schedule shall be modified by the test agency based on the manufacturing/import data provided by manufacturer and/or importer.
- 7.2 For the random sample selection the manufacturer and/or importer shall offer a population equivalent to one day's production/import subject to a minimum of 10 and maximum of 100. For small volume vehicles as specified in clause 5.2, the manufacturer and/or importer may directly deliver one vehicle to the test agency.
- 7.3 A vehicle is considered as "produced" when the vehicle has passed the final inspection stage as declared by the manufacturer and/or importer.
- 7.4 The manufacturer and/or importer shall submit additional details of the vehicle model/variant sample chosen for testing as specified in the format in clause 10.2.
- 7.5 Once the test agency has selected a sample vehicle randomly from a lot of produced/imported vehicles, the manufacturer and/or importer shall hand over the control of the vehicle to the test agency.
- 7.6 At the request of the manufacturer and/or importer the test agency shall permit the manufacturer and/or importer under the former's supervision to conduct on the chosen vehicle any pre-delivery inspection as per the procedure declared during type approval.
- 7.7 The access control of the selected test sample vehicle shall pass on to the selecting test agency immediately after selection. Thereafter any person may have access to those vehicles during their stay in the premises, during their preparation (e.g. cabin or body building etc.) and during their journeys to the test site only with the permission and/or supervision of the test agency.
- 7.8 Prior to the track tests, any necessary preparation of vehicle such as running-in of the vehicle, bedding in of the brakes, etc. as prescribed in the relevant standard or as prescribed by the manufacturer and/or importer shall be carried out. After the running-in and prior to the track tests, routine adjustments as recommended in the manufacturer's and/or importer's customer support literature shall be carried out on the vehicle.
- 7.9 **Use of Manufacturer's and/or Importer's test facility for WVSCoP verification:** The test agency shall have the discretion to conduct the inspection and installation checks given in table 5 at the manufacturer's and/or importer's facilities. Similarly, the test agency shall at its discretion conduct the track tests at manufacturer's and/or importer's test facilities provided the facilities have either a valid accreditation from one of the test agencies specified in Rule 126 of CMVR 1989 or a valid certificate of compliance to ISO/IEC 17025.

- 7.10 **Repairs:** In case of any failure of any vehicle components during the running-in or testing and if the components are unlikely to influence the test results, it shall be permissible to replace such failed components but only once and to continue the tests. In case the failed component is likely to influence the test result another sample of the same model/variant shall be again randomly selected. Alternatively based on concurrence between the test agency and the manufacturer and/or importer it shall also be permissible to replace the failed components on the sample vehicle and repeat the ongoing test. In case if there is a repeat failure of the same test-influencing component the failure shall be reported to the nodal agency and directions sought while test agency continues with WVSCoP verification. In any case, replacement of failed components shall happen under supervision of test agency only.
- 7.11 While the manufacturer’s and/or importer’s representative may be present as an observer in the evaluation activities in consultation with the test agency, the representative shall not be permitted any physical access to the vehicle or its test instrumentation, without the supervision of test agency.
- 7.12 **Care of the sample vehicle:** As the sample vehicle(s) chosen for WVSCoP verification is intended for sale to customer, the test agency conducting the WVSCoP verification shall take utmost care in preserving its performance and original interior and exterior appearance.
- 7.13 **The Max-20 statistical procedure**
- 7.13.1 The pass or fail decision of WVSCoP verification shall be based on the Max-20 system explained below.
- 7.13.2 For each of the tests applicable to the sample vehicle(s) where the test statistic is the number of vehicles which have NOT met the limit criteria for tests, then
- 7.13.2.1 If the test statistic does not exceed the pass decision number for the sample size given in the table 6, a pass decision is reached for the test,
- 7.13.2.2 If the test statistic equals or exceeds the fail decision number for the sample size given in the table 6, a fail decision is reached for the test,
- 7.13.2.3 Otherwise an additional vehicle is randomly chosen and tested, and the procedure is applied to the total sample set with this one extra unit added.

**Table 6 Max-20 Sampling Sequence**

Cumulative sample size	Pass decision No.	Fail decision No.
1	0	-
3	1	-
4	1	-
5	1	5
6	2	6
7	2	6
8	3	7
9	4	8
10	4	8

11	5	9
12	5	9
13	6	10
14	6	11
15	7	11
16	8	12
17	8	12
18	9	13
19	9	13
20	11	12

- 7.14 In the max-20 verification sequence, the additional samples chosen for testing shall be same as the samples chosen so far. In case such additional samples are not available for random selection, then it shall be permissible for the test agency to choose samples from other variants of WVSCoP family which have the same technical characteristics for the purpose of the test(s) to be conducted.
- 7.15 **Tests, inspections and checks carried out in first sample & subsequent samples under Max-20 verification procedure**
- 7.15.1 All tests, inspections and checks as per Table 5 (clause 6) shall be conducted on the first sample randomly chosen irrespective of whether the sample fails in some of the tests.
- 7.15.2 Only the tests or inspections or installation checks in which the first sample or cumulative sample size not met the requirements shall be conducted on additional samples as per Max-20 plan. The tests, inspections & checks in which the samples chosen so far have met the requirements shall not be re-conducted on the subsequent samples.
- 7.15.3 In case a “failed” decision is obtained as a result of the Max-20 process for any requirement of Table-5, verification for other requirements of Table-5 shall continue to be undertaken as required by the Max-20 process.
- 7.16 If the testing of a vehicle model/variant of a WVSCoP family with one or more samples as per Table 6 is not completed by the end of the ongoing WVSCoP period, the WVSCoP verification shall be completed with samples randomly chosen from the next WVSCoP period. Such selection shall be executed within two weeks of need arising for such samples and from a population of vehicles which are double of those specified in clause 7.2. In case zero or inadequate number of vehicles is scheduled for production/import when the need for selection arises such selection shall be undertaken within two weeks of start of production/import. Such selection from the subsequent WVSCoP period shall have no influence on the implementation of the requirements of these rules for that subsequent WVSCoP period.
- 7.17 The test agency shall complete the testing of the vehicle from a WVSCoP family within twelve weeks of selection of the last sample. If the tested model/variant complies with the requirements of WVSCoP verification, then the test agency shall issue WVSCoP reports (one report per vehicle tested including Max-20 test results)

& WVSCoP certificate (one certificate per WVSCoP family) to the manufacturer and/or importer in the formats prescribed in clause 11 & clause 12.

## **8 CONSEQUENCES OF FAILURE OF WVSCoP**

8.1 A model/variant is declared “failed” if it has not complied with the WVSCoP requirements in Table-5 after the Max-20 sampling procedure. A model/variant is also declared “failed” if the manufacturer and/or importer declares that the model/variant has not complied with the WVSCoP requirements in Table-5 before completion of the Max-20 sampling procedure. The consequence of such failures shall be applicable only to the WVSCoP requirements that have not been complied with and no action is required on the WVSCoP requirements that have been complied with.

### **8.2 Treatment of noncompliance with respect to markings as per AIS-037 on components (see Table-5 of this standard)**

8.2.1 If any part does not have the markings as per AIS-037 after following max-20 sampling procedure, it shall be treated as a WVSCoP failure and actions as per clause **8.5 to 8.9** shall apply.

8.2.2 If the marking as per AIS-037 on the part fitted on the vehicle selected for WVSCoP does not match with markings given in relevant tables of AIS-007 (approved) for that part, the following steps shall be taken.

8.2.3 If the affected part does not call for a verification of installation check,

8.2.3.1 No action required if application for approval for inclusion of the affected part, has already been submitted to test agency.

8.2.3.2 If not, such an application shall be made by the manufacturer and/or importer within one month of the WVSCoP failure. If not, action as per para **8.5 to 8.9** shall be applicable.

8.2.4 If the affected part calls for a verification of installation check,

8.2.4.1 The installation check for the particular component as per the WVSCoP requirements given in Table-5 of this standard shall be carried out on the vehicle selected for WVSCoP.. If the installation requirements are complied with the type approval requirements, conditions of 8.2.3 shall apply, to the models/variants which can be represented by the random selected model/variant according to Criteria for Extension of Approval (CEA). For clearing the models/variants not covered by selected models/variants, additional test to be carried out on another representative worst case model/variant.

8.2.4.2 If the installation requirements are not complied with, it shall be treated as a WVSCoP failure and action plan as per para **8.5 to 8.9** shall apply.

8.2.4.3. Above procedure is also applicable in the case of marking of safety critical components, whose markings are described in AIS-007.

- 8.3 If a model/variant is declared “failed” against the requirements of WVSCoP as per clause 8.1 based on max-20 sampling procedure, the test agency shall send the copies of the test report to the nodal agency and the manufacturer and/or importer. The manufacturer and/or importer shall respond immediately to both the test agency and the nodal agency with a WVSCoP restoration plan. Subsequent sample selection and WVSCoP tests, inspections and checks by the test agency shall continue as specified in clause 8.8.
- 8.4 The nodal agency shall make a decision and convey the same to the manufacturer and/or importer and test agency after receipt of the failure report of the WVSCoP, and after calling for a standing committee meeting to discuss and advise the nodal agency. The vehicle manufacturer and/or importer shall be given an opportunity to present his case to the committee before the committee advises the nodal agency. Based on the recommendations of the committee, the nodal agency may issue the order for withdrawal of type approval certificate of the non-complying models/variants that are declared as “failed” from particular WVSCoP family in clause 8.1, and stop dispatch of such vehicles by the manufacturer and/or importer. Manufacturer and/or importer shall be permitted to continue production / import / dispatch / sale of vehicles of the particular models/variants till the order from nodal agency is issued to the manufacturer and/or importer. However, if implementation of corrective action (as per clause 8.5) has not been completed within 6 months of the failure date, vehicles without implementation of corrective action shall not be dispatched from the manufacturer’s plant(s) / importer’s premise(s).
- 8.5 **Implementation of corrective actions:**
- 8.5.1 In case the type approval certificate has been withdrawn as per clause 8.4 above, the manufacturer and/or importer shall subsequently identify the reason for the model/variant not meeting the WVSCoP requirements (such as but not limited variations across plants, or in batch of production, or in components manufactured/imported) and the necessary corrective measures, and shall submit the information to the nodal agency and concerned test agency at the earliest and offer a rectified vehicle for WVSCoP re-verification. Optionally, at its discretion the test agency may re-verify WVSCoP requirements on the basis of the test reports submitted by the manufacturer and/or importer.
- 8.5.2 If the modifications are only in the production process without involving any design change (for example parameters as declared in AIS-007, etc.), it shall be demonstrated to meet the failed requirements of Table-5 as applicable on the manufacturing date of first random sample selection of the model/variant. If the modifications call for changes resulting in a design change (for example parameters as declared in AIS-007, etc.), it shall meet the type approval requirements as prevailing on the manufacturing date of first random sample selection and fresh type approval shall be obtained with due consideration for any CEA or WCC as may be applicable. In either case the submitted vehicle shall meet the requirement without application of the Max-20 statistical procedure.
- 8.5.3 If the rectified vehicle complies with the relevant WVSCoP requirements, the manufacturer and/or importer shall inform the nodal agency and concerned test



agency which has carried out the WVSCoP verification, the modifications which are to be finally carried out on the vehicles to be produced/imported in future and the vehicles already produced/imported which would require retro-fitting or rectifications. Type approval shall then be restored by the nodal agency and production/import of the model/variant can be resumed at the discretion of nodal agency. Further, a confirmative WVSCoP shall be carried out within six months of resumption of production/import against the requirements of this standard if a regular WVSCoP is not scheduled within this period. If regular WVSCoP is scheduled within that period, this confirmative WVSCoP need not be carried out.

- 8.6 The manufacturer and/or importer is also permitted to offer the rectified vehicle from serial production, for random selection if the changes are in the production process and not in the design of the vehicle. In case the manufacturer and/or importer offers serially produced vehicle for random selection from a population, the confirmative WVSCoP verification mentioned above need not be carried out. Test agency shall issue WVSCoP reports and certificate after the ongoing WVSCoP is complete.
- 8.7 If the rectified vehicle offered for WVSCoP re-verification as per clause 8.5.1 does not meet the WVSCoP requirements in Table-5, actions under clauses 8.4 to 8.6 shall be repeated.
- 8.8 In addition to actions as per clauses 8.3 to 8.7, to verify the WVSCoP of the remaining vehicles in the WVSCoP family the test agency may randomly select additional model(s)/variant(s) from the WVSCoP family and subject them to the requirements of this standard. The test agency at its discretion shall choose minimum number of model(s)/variant(s) so that the results observed on additional model(s)/variant(s) can be extended to the remaining vehicle models/variants within that particular WVSCoP family.
- 8.9 **Implementation of corrective actions in the affected vehicles:**
- 8.9.1 It shall be the responsibility of the manufacturer and/or importer to ensure at his cost that the modifications (as finalized in clause 8.5) are carried out and / or modified components (as finalized in clause 8.5) are retrofitted, within a period specified by the nodal agency, on all affected vehicles (belonging to the WVSCoP family) manufactured / imported after the date on which the WVSCoP became due as per clause 4.1. till the implementation of corrective action in serial production.

## 9 TRANSITIONAL PROVISIONS

- 9.1 Compliance to the WVSCoP requirements as per the regulations or standards listed in Table-5, AIS-007 specifications shall be as applicable on the date of manufacture of sample vehicle and not on the date of selection or not on the date of issue of WVSCoP report/certificate as per this standard. However, it shall be permissible for the manufacturer and/or importer to opt for the test to be conducted as per the latest notified amendment or revision of standards covered in Table-5.

- 9.2 The safety component type approval and CoP certificates as per AIS-037/BIS need to be valid on the date of manufacture/import of the vehicle and not on the date of WVSCoP verification. If any TA/CoP certificate as per AIS-037/BIS has expired, it shall not be considered as WVSCoP noncompliance, provided the manufacturer and/or importer submits the proof that the application for fresh CoP of such components has already been submitted to test agency.
- 9.3 The implementation date for revision of a standard referred in Table 5, shall be same as the notified date for implementation of the standard for manufacturing of vehicles irrespective of whether or not Table 5 has been updated to reflect the revision of the particular standard.
- 9.4 In the case of multistage vehicles the date of manufacture of the first stage (for example, drive away chassis) shall be treated as the date of manufacture of the multistage vehicle.

**10 INFORMATION TO BE SUBMITTED BY THE VEHICLE MANUFACTURER AND/OR IMPORTER**

10.1 Information given in Table-7 below shall be submitted by the vehicle manufacturer and/or importer when applying for WVSCoP.

**Table 7 – Information to be submitted by the Vehicle Manufacturer and/or Importer for WVSCoP family under approval**

<b>1.0</b>	<b>Details of the Applicant:</b>	
1.1	Name & address of the Applicant	
1.2	Telephone No	
1.3	Fax No.	
1.4	E-mail address	
1.5	Contact person	
<b>2.0</b>	Importer's Name and address	
<b>3.0</b>	Plant(s) of manufacture / import premises	
3.1	Name & address of vehicle manufacturing plant(s) / import premises (attach annexure if necessary)	
<b>4.0</b>	<b>Period details</b>	
4.1	Financial Years	
4.2	Tentative WVSCoP selection date	
4.3	1 <sup>st</sup> WVSCoP (or) Repeat WVSCoP	
<b>5.0</b>	<b>Vehicle Family name</b>	
5.1	Vehicle Base Models / Variants names	Attach separate annexure as per the format given in Table 1.
5.2	Corresponding CMVR certificate No(s) and date (including applicable extension certificates)	
5.3	Category of vehicle as per AIS-053/ IS 14272	
5.4	Engine capacity in cc (for L1, L2, L5, L7, M1, M2/ N1 derived from M1, E-rickshaw & E-cart)	
5.5	Motor power for full electric / hybrid electric vehicles	
5.6	GVW in Tonnes (for M2, M3, N category vehicles)	
<b>6.0</b>	<b>Plant wise Contact details</b> (attach annexure if necessary)	
6.1	WVSCoP coordinator at Plant(s) of selection	
6.2	Designation	
6.3	Telephone No	
6.4	Fax No.	
6.5	E-mail address	
<b>7.0</b>	Name & volume of Models and their variants in WVSCoP family	Attach details as per Table-7.1 below
<b>8.0</b>	Name of previous WVSCoP test agency, if any	

**Table 7.1 Volume details for Models/Variants in the WVSCoP Family****Family Name:**

Sr. No.	Model / Variant Name	Indicate Base Model (B) or Variant (V)	Plant(s)	CMVR Certificate No.	Certificate date	Vehicle Category as per AIS-053 / IS 14272	Tentative Production Plan / Actual Production for WVSCoP Period		Latest WVSCoP Certificate No. (If any)
							Year1 (Y1) <sup>(2)</sup>	Year 2 (Y2) <sup>(2)</sup>	

Notes:

- Fill up one table for each family
- In case the WVSCoP is to be done in Year 1 (Y1), the tentative production plan figures shall be submitted for Y1 and the data for Year 2 (Y2) need not be submitted. In case the WVSCoP is to be done in Year 2 (Y2), the actual production figures shall be submitted for Y1 and tentative production figures shall be submitted for Y2.

10.2 For each vehicle model/variant selected for WVSCoP, the manufacturer and/or importer shall submit the CMVR type approval certificate of vehicle model/variant selected along with the corresponding endorsed CMVR specifications to the test agency to whom the application for WVSCoP is submitted, if that test agency does not have this information. Manufacturer shall also submit the extracted specifications as per format in Table 8.1 or 8.2 or 8.3 or 8.4, as given below. Test agency shall ensure that the CMVR certificate submitted is updated and relevant for the date of manufacture of the vehicle selected and complies with the requirements of clause 9.1.

**Table 8.1 Information to be submitted by the Vehicle Manufacturer and/or Importer for the vehicle model/variant selected for WVSCoP verification (for L category vehicles)**

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1	Lighting & Light signaling devices AIS-008 / AIS-009	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)	
1.1		<b>Main beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.2		<b>Dipped beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.3		<b>Front Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.4		<b>Front direction indicator lamp</b>	
	TAC No./ E-marking / BIS License No.		

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1.5		<b>Daytime Running lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.6		<b>Front fog lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.7	Lighting & Light signaling devices AIS-008 / AIS-009	<b>Front Retro Reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.8		<b>Stop lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.9		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.10		<b>Reversing lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.11		<b>Rear Direction Indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.12		<b>Rear fog lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.13		<b>Rear retro reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.14		<b>Rear Registration plate lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.15	Lighting & Light signaling devices AIS-008 / AIS-009	<b>Side Direction Indicator Lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.16		<b>Side Reflex Reflector</b>	
		TAC No./ E-marking / BIS License No.	
2.1	Horn (IS 1884)	<b>High Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
2.2		<b>Low Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
3.1	Rear view mirror (AIS- 001)	<b>Main mirror (Small) [ Class III ]</b>	
		TAC No./ E-marking / BIS License No.	
3.2		<b>Main Exterior mirror [Class VII] (if fitted)</b>	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
		TAC No./ E-marking / BIS License No.	
3.3		<b>Interior Mirror (Class-I)</b>	
		TAC No./ E-marking / BIS License No.	
4.1	<b>Windscreen wiping system [AIS-045] for Quadricycles</b>	Wiper blade length (Driver side)	
4.2		Wiper blade length (Co-Driver side)	
4.3		Wiper arm length (Driver side)	
4.4		Wiper arm length (Co-Driver side)	
4.5		Wiping Frequency Check	
5.1	<b>Safety Glass [ IS 2553 (Part 2) ]</b>	<b>Front Windshield safety glass</b>	
		TAC No./ E-marking / BIS License No.	
5.2		<b>Side windows safety glass</b>	
		TAC No./ E-marking / BIS License No.	
5.3		<b>Rear safety glass</b>	
		TAC No./ E-marking / BIS License No.	
6.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted		
6.1	<b>Pillion hand hold (IS: 14495):</b> Whether fitted		
7.0	(Reserved)		
8.0	<b>CNG / LPG vehicles (AIS-024, AIS-025 , AIS-026 , AIS-027 , AIS-028 )</b>		
8.1		<b>Gas cylinder</b>	
		Serial No. of the Gas cylinder as per PESO approval	
8.2		<b>CNG Pressure Regulator</b>	
		TAC No./ E-marking / BIS License No.	
8.3		<b>LPG Pressure regulator / vaporizer</b>	
		TAC No./ E-marking / BIS License No.	
9.0	Tyres IS 15627/ IS 15633/ IS 15636	BIS marking or marking as per AIS-037, as applicable	
		Front Tyres	
		Rear Tyres	
		Spare Tyres	
10.0	Seat belt IS 15140 (for L7 category)	Marking as per AIS-037	
		Fitment check	
11.0	Traction Batteries (AIS-048)	Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval.	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
12.1	Reflective Tape as per AIS-090 for L5 category	Front Reflective Tape (White)	
		TAC No./ E-marking / BIS License No.	
12.2		<b>Rear Reflective Tape (Red)</b>	
		TAC No./ E-marking / BIS License No.	

**Table 8.2 Information to be submitted by the Vehicle Manufacturer and/or Importer for the vehicle model/variant selected for WVSCoP verification (for E-rickshaws & E-carts)**

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1	Lighting & Light signaling devices AIS-008 / AIS-009	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)	
1.1		<b>Main beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.2		<b>Dipped beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.3		<b>Front Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.4		<b>Front direction indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.5		<b>Front Retro Reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.6		<b>Stop lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.7		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.8		<b>Reversing lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.9		<b>Rear Direction Indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.10		<b>Rear retro reflector</b>	
	TAC No./ E-marking / BIS License No.		

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1.11	Lighting & Light signaling devices AIS-008 / AIS-009	<b>Rear Registration plate lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.12		<b>Side Direction Indicator Lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.13		<b>Side Reflex Reflector</b>	
		TAC No./ E-marking / BIS License No.	
2.0	Traction Batteries (AIS-048)	Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval	
3.1	Reflective Tape as per AIS-090	Front Reflective Tape (White)	
		TAC No./ E-marking / BIS License No.	
3.2		Rear Reflective Tape (Red)	
		TAC No./ E-marking / BIS License No.	
4.1	Horn (IS 1884)	High Tone horn	
		TAC No./ E-marking / BIS License No.	
4.2		Low Tone horn	
		TAC No./ E-marking / BIS License No.	
5.1	Safety Glass [ IS 2553 (Part 2), if fitted]	Front Windshield safety glass	
		TAC No./ E-marking / BIS License No.	
5.2		Side windows safety glass	
		TAC No./ E-marking / BIS License No.	
5.3		Rear safety glass	
		TAC No./ E-marking / BIS License No.	
6.0	Rear view mirror	Main mirror, Fitted (Yes/No)	

**Table 8.3 Information to be submitted by the Vehicle Manufacturer and/or Importer for the vehicle model/variant selected for WVSCoP for verification (for M1 and N1 category vehicles)**

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1.0	Lighting & Light signaling devices AIS-008	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)	
1.1		<b>Main beam head lamp</b>	



Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
		TAC No./ E-marking / BIS License No.	
1.2		<b>Dipped beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.3		<b>Front Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.4		<b>Front direction indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.5		<b>Daytime Running lamp (If provided)</b>	
		TAC No./ E-marking / BIS License No.	
1.6		<b>Cornering lamp (If provided)</b>	
		TAC No./ E-marking / BIS License No.	
1.7		<b>Front fog lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.8	Lighting & Light signaling devices AIS-008	<b>Front Retro Reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.9		<b>Stop lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.10		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.11		<b>Reversing lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.12		<b>Rear Direction Indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.13		<b>Rear fog lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.14		<b>Rear retro reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.15		<b>High mounted stop lamp</b>	
	TAC No./ E-marking / BIS License No.		
1.16	Lighting & Light signaling devices AIS-008	<b>Rear Registration plate lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.17		<b>Front End outline marker lamps (If fitted)</b>	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
		TAC No./ E-marking / BIS License No.	
1.18		<b>Rear End outline marker lamps (If fitted)</b>	
		TAC No./ E-marking / BIS License No.	
1.19		<b>Side marker lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.20		<b>Side Direction Indicator Lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.21		<b>Side Reflex Reflector</b>	
		TAC No./ E-marking / BIS License No.	
2.1		<b>High Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
2.2	Horn (IS 1884)	<b>Low Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
3.1	Rear view mirror (AIS-001)	<b>Interior mirror [ Class I]</b>	
		TAC No./ E-marking / BIS License No.	
3.2		<b>Main mirror (Small) [ Class III]</b>	
		TAC No./ E-marking / BIS License No.	
4.1		Wiper blade length (Driver side)	
4.2		Wiper blade length (Co-Driver side)	
4.3	<b>Windscreen wiping system [ IS: 15802, IS: 15804]</b>	Wiper arm length (Driver side)	
4.4		Wiper arm length (Co-Driver side)	
4.5		Wiping Frequency Check	
5.1		<b>Front Windshield safety glass</b>	
		TAC No./ E-marking / BIS License No.	
5.2	<b>Safety Glass [ IS 2553(Part 2)]</b>	<b>Side windows safety glass</b>	
		TAC No./ E-marking / BIS License No.	
5.3		<b>Rear safety glass</b>	
		TAC No./ E-marking / BIS License No.	
6.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted		
7.0	<b>Spray suppression device (AIS-013 )</b>	Marking on the spray suppression device	
8.1	<b>CNG / LPG vehicles (AIS-024, AIS-025, AIS-026, AIS-028)</b>	<b>Gas cylinder</b>	
		Serial No. of the Gas cylinder as per PESO approval	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
8.2		<b>CNG Pressure Regulator</b>	
		TAC No./ E-marking / BIS License No.	
8.3		<b>LPG Pressure regulator / vaporizer</b>	
		TAC No./ E-marking / BIS License No.	
9.0	Tyres IS 15633/ IS 15636	BIS marking or marking as per AIS-037, as applicable	
		Front Tyres	
		Rear Tyres	
		Spare Tyres	
10.0	Seat belt IS 15140	Marking as per AIS-037 (M1 category)	
		Fitment check	
11.0	Traction Batteries (AIS 048)	Marking as per AIS-037	

**Table 8.4 Information to be submitted by the Vehicle Manufacturer and/or Importer for the vehicle model/variant selected for WVSCoP verification (for M2, M3, N2 and N3 category vehicles)**

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1.0	Lighting & Light signaling devices AIS-008	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)	
1.1		<b>Main beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.2		<b>Dipped beam head lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.3		<b>Front Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.4		<b>Front direction indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.5		<b>Daytime Running lamp (If provided)</b>	
		TAC No./ E-marking / BIS License No.	
1.6		<b>Cornering lamp (If provided)</b>	
		TAC No./ E-marking / BIS License No.	
1.7		<b>Front fog lamp</b>	
		TAC No./ E-marking / BIS License No.	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
1.8	Lighting & Light signaling devices AIS-008	<b>Front Retro Reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.9		<b>Stop lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.10		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.11		<b>Reversing lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.12		<b>Rear Direction Indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.13		<b>Rear fog lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.14		<b>Rear retro reflector</b>	
		TAC No./ E-marking / BIS License No.	
1.15	<b>High mounted stop lamp</b>		
	TAC No./ E-marking / BIS License No.		
1.16	Lighting & Light signaling devices AIS-008	<b>Rear Registration plate lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.17	Lighting & Light signaling devices AIS-008	<b>Front End outline marker lamps</b>	
		TAC No./ E-marking / BIS License No.	
1.18		<b>Rear End outline marker lamps</b>	
		TAC No./ E-marking / BIS License No.	
1.19		<b>Side marker lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.20		<b>Side Direction Indicator Lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.21		<b>Side Reflex Reflector</b>	
		TAC No./ E-marking / BIS License No.	
2.1	Reflective Tape as per AIS-090	<b>Front Reflective Tape (White)</b>	
		TAC No./ E-marking / BIS License No.	
2.2		<b>Rear Reflective Tape (Red)</b>	
		TAC No./ E-marking / BIS License No.	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
2.3		<b>Side Reflective Tape (Amber)</b>	
		TAC No./ E-marking / BIS License No.	
3.0	Rear marking plate plate as per AIS-089	Fitment : Yes/No/Not Applicable	
4.1	Horn (IS 1884)	<b>High Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
4.2		<b>Low Tone horn</b>	
		TAC No./ E-marking / BIS License No.	
5.1	Rear view mirror (AIS-001)	<b>Interior mirror [ Class I]</b>	
		TAC No./ E-marking / BIS License No.	
5.2		<b>Main mirror (Large) [ Class II]</b>	
		TAC No./ E-marking / BIS License No.	
5.3		<b>Main mirror (Small) [ Class III]</b>	
		TAC No./ E-marking / BIS License No.	
5.4		<b>Wide angle mirror [ Class IV]</b>	
		TAC No./ E-marking / BIS License No.	
5.5		<b>Close proximity mirror [ Class V]</b>	
		TAC No./ E-marking / BIS License No.	
5.6		<b>Front mirror [ Class VI ]</b>	
		TAC No./ E-marking / BIS License No.	
6.0	<b>Mounting location of the Rear view mirrors</b> as per type approval (AIS-002 )		
7.1	<b>Windscreen wiping system [ IS: 15802, IS: 15804]</b>	Wiper blade length (Driver side)	
7.2		Wiper blade length (Co-Driver side)	
7.3		Wiper arm length (Driver side)	
7.4		Wiper arm length (Co-Driver side)	
7.5		Wiping Frequency Check	
8.1	<b>Safety Glass [ IS 2553 (Part 2)]</b>	<b>Front Windshield safety glass</b>	
		TAC No./ E-marking / BIS License No.	
8.2		<b>Side windows safety glass</b>	
		TAC No./ E-marking / BIS License No.	
8.3		<b>Rear safety glass</b>	
		TAC No./ E-marking / BIS License No.	
9.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted		
10.0	<b>Spray suppression device (AIS-013)</b>	Marking on the spray suppression device	

<b>Sr. No.</b>	<b>Ref. Standard</b>	<b>Parameter</b>	<b>Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP</b>
11.1	<b>CNG / LPG vehicles (AIS-024, AIS-025, AIS-026 , AIS-028)</b>	<b>Gas cylinder</b>	
		Serial No. of the Gas cylinder as per PESO approval	
11.2		<b>CNG Pressure Regulator</b>	
		TAC No./ E-marking / BIS License No.	
11.3		<b>LPG Pressure regulator / vaporizer</b>	
		TAC No./ E-marking / BIS License No.	
12.0	Tyres  IS 15636	BIS marking or marking as per AIS-037, as applicable	
		Front Tyres	
		Rear Tyres	
		Spare Tyres	
		Other Tyres	
13.0	RUPD (IS 14812)	Mounting as per approved layout	
14.0	SUPD (IS 14682)	Mounting as per approved layout	
15.0	Seat belt IS 15140	Marking as per AIS-037 (M1 category)	
		Fitment check	
16.0	Traction Batteries (AIS-048)	Marking as per AIS-037	
17.0	FUPD AIS-069	Mounting as per approved layout	

**11.0 FORMAT OF WVSCoP TEST REPORTS**

- 11.1 Format for WVSCoP Test Report shall be as given in Annexure- A
- 11.2 Format for Test report of WVSCoP static verifications shall be as given in Annexure- B
- 11.3 Format for Test report of WVSCoP vehicle performance tests viz. brakes, steering, pass by noise, etc., shall be as given in Annexure-C

**12.0 FORMAT OF WVSCoP CERTIFICATE**

- 12.1 Format for Certificate for WVSCoP shall be as given in Annexure D.

**ANNEXURE A: Format for WVSCoP Test Report****EVALUATIONS REPORT FOR WVSCOP VERIFICATION**

Test Report No.: -----		<b>Date:</b>	
<b>1.0</b>	<b>NAME AND ADDRESS OF THE VEHICLE MANUFACTURER AND/OR IMPORTER</b>		
<b>2.0</b>	<b>Letter Reference:</b>		
<b>3.0</b>	<b>DETAILS OF THE VEHICLE UNDER EVALUATION:</b>		
	Category	Model Name	
	Engine No./ Electric motor No.	Chassis No.	
	GVW	Engine capacity / Electric motor power	
	Manufacturing plant & address of selected model		
	Latest CMVR Type Approval Certificate No.		
	CMVR Type Approval Certificate Issued by (name of the test agency):		
<b>4.0</b>	<b>OBJECTIVE AND REQUIREMENTS:</b> To evaluate the vehicle for WVSCoP (Whole Vehicle Safety Conformity of Production) as per AIS-017 (Part 6) :2020		
<b>5.0</b>	<b>DATE OF EVALUATION</b>		
<b>6.0</b>	<b>RESULTS OF THE VERIFICATION OF THE VEHICLE UNDER WVSCOP APPROVAL:</b>		
6.1	Refer Appendices, as applicable, of this report for the test results of static verifications and dynamic tests of the vehicle under WVSCoP approval.		
<b>Disclaimer (indicative):</b>			
<ol style="list-style-type: none"> <li>1. [Name of test agency] issues Whole Vehicle Safety Conformity of Production Certificate” (<b>WVSCOPC</b>) for vehicles based on the documents produced and /or testing carried out on the selected sample(s) as per provisions of specific rules.</li> <li>2. [Name of test agency] issues <b>WVSCOPC</b> in compliance to Motor Vehicle Act / Central Motor Vehicles Rules and their provisions as amended from time to time or any other statutory orders under which [Name of test agency] is authorised. Other Rules/ Acts/parameters are outside the purview/ scope of <b>WVSCOPC</b>.</li> <li>3. Test(s) on sample(s) is/ are carried out on the basis of standard procedures as notified under specific rules. Results of such tests are the property of bearer of <b>WVSCOPC</b>. These results cannot be disclosed unless specifically so ordered by Government, Court, etc.</li> </ol>			

4. [Name of test agency] is not responsible for testing each produced vehicles/ components/ parts/ assemblies etc. for which TAC and **WVSCOPC** are issued. Further, [Name of test agency] is not responsible for ensuring manufacturing quality of the Whole Vehicle Safety Conformity of Production approved/ type approved vehicles/ components/ parts/ assemblies etc.
5. [Name of test agency] is in no way responsible for any misuse or copying of any design/ type/ system in connection with entire vehicle/ components/ parts and assemblies covered under the TAC and **WVSCOPC**.
6. Breach of any statutory provision of Indian laws or laws of other countries will be the sole responsibility of the bearer of TAC and [Name of test agency] shall not be liable for any claims or damages. The bearer shall alone be liable for the same and shall undertake to indemnify [Name of test agency] in this regard.
7. [Name of test agency] has the right, to initiate cancellation/ withdrawal of the **WVSCOPC** issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of [Name of test agency].

The appropriate local courts at [Name of City/Taluka] shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate/ Report.

**CONCLUSION:** Based on the verification of the vehicle for the parameters covered in this test report as per Clause No. 6.0 of AIS-017 (Part-6):2020, following WVSCoP family is granted compliance to these requirements

**Details of the WVSCoP family:**

WVSCoP Family Name:

Sr. No.	Base Model (s)	Variant(s)	Plant(s) / Premises produced or imported	CMVR TA Certificate No.	Certificate date

<b>PREPARED BY:</b>		<b>CHECKED BY:</b>		<b>APPROVED BY:</b>	
Name and Designation		Name and Designation		Name and Designation	
Place of Issue:				Date of Issue:	



**ANNEXURE B: FORMAT FOR TEST REPORT OF WVSCOP STATIC  
VERIFICATIONS**

**Appendix-B-1: RESULTS OF THE STATIC VERIFICATION OF THE VEHICLE  
UNDER WVSCOP APPROVAL (For L Category vehicles)**

[ See Clause No. 6.1, Table-5 of AIS-017 (Part-6): 2020]

REPORT NO.: -----

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1	HLLD (AIS-008 for L7 vehicles)	Check for fitment of device as approved in TA,			
2	Lighting & Light signaling devices AIS-008/ AIS-009	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)			
2.1		<b>Main beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.2		<b>Dipped beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.3		<b>Front Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.4		<b>Front direction indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.5		<b>Daytime Running lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.6		<b>Front fog lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.7		Lighting & Light signaling devices AIS-008 / AIS-009	<b>Front Retro Reflector</b>		
	TAC No./ E-marking / BIS License No.				
2.8	<b>Stop lamp</b>				
		TAC No./ E-marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
2.9		<b>Rear Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.10		<b>Reversing lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.11		<b>Rear Direction Indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.12		<b>Rear fog lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.13		<b>Rear retro reflector</b>			
		TAC No./ E-marking / BIS License No.			
2.14	Lighting & Light signaling devices AIS-008 / AIS-009	<b>Rear Registration plate lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.15		<b>Side Direction Indicator Lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.16		<b>Side Reflex Reflector</b>			
		TAC No./ E-marking / BIS License No.			
3.0	Horn (IS 1884)				
3.1		<b>High Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
3.2		<b>Low Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
4.0	Rear view mirror (AIS- 001)				
4.1		<b>Main mirror (Small) [ Class III ]</b>			
		TAC No./ E-marking / BIS License No.			
4.2		<b>Main Exterior mirror [ Class VII ] (if fitted)</b>			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
4.3		TAC No./ E-marking / BIS License No.			
		Interior Mirror (Class-I) (If fitted)			
		TAC No./ E-marking / BIS License No.			
5.0	<b>Windscreen wiping system [AIS-045] for Quadricycles</b>				
5.1 to 5.4	(Reserved)				
5.5		Wiping Frequency Check			
6.0	<b>Safety Glass [ IS 2553 (Part 2) ] as applicable</b>				
6.1		<b>Front Windshield safety glass</b>			
		TAC No./ E-marking / BIS License No.			
6.2		<b>Side windows safety glass</b>			
		TAC No./ E-marking / BIS License No.			
6.3		<b>Rear safety glass</b>			
		TAC No./ E-marking / BIS License No.			
7.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted				
7.1	<b>Pillion hand hold (IS: 14495):</b> Whether fitted				
8.0	<b>Spray suppression device (AIS-103)</b>	Marking on the spray suppression device			
9.0	<b>CNG / LPG vehicles (AIS-024, AIS-025, AIS-026, AIS-027, AIS-028)</b>				
9.1		<b>Gas cylinder</b>			
		Serial No. of the Gas cylinder as per PESO approval			
9.2		<b>CNG Pressure Regulator</b>			
		TAC No./ E-marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
9.3		<b>LPG Pressure regulator / vaporizer</b>			
		TAC No./ E-marking / BIS License No.			
10	Tyres IS 15627/ IS 15633/ IS 15636	BIS marking or marking as per AIS-037, as applicable			
		Front Tyres			
		Rear Tyres			
		Spare Tyres, if provided			
		Other Tyres, if fitted			
11	Seat belt IS 15140 (for L7 category)	Marking as per AIS-037			
		Fitment check			
12	Traction Batteries AIS-048	Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval.			
13.0	Reflective Tape as per AIS-090 for L5 category	Front Reflective Tape (White)			
		TAC No./ E-marking / BIS License No.			
13.1		Rear Reflective Tape (Red)			
		TAC No./ E-marking / BIS License No.			

**Appendix-B-2: RESULTS OF THE STATIC VERIFICATION OF THE VEHICLE  
UNDER WVSCOP APPROVAL (For E-rickshaws & E-carts)**

[See Clause No. 6.1, Table-5 of AIS-017 (Part-6): 2020 ]

REPORT NO.: -----

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1	Lighting & Light signaling devices AIS- 008 / AIS-009	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)			
1.1		<b>Main beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.2		<b>Dipped beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.3		<b>Front Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.4		<b>Front direction indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.5		<b>Front Retro Reflector</b>			
		TAC No./ E-marking / BIS License No.			
1.6		<b>Stop lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.7		<b>Rear Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.8		<b>Reversing lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.9		<b>Rear Direction Indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1.10		<b>Rear retro reflector</b>			
		TAC No./ E-marking / BIS License No.			
1.11		<b>Rear Registration plate lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.12		<b>Side Direction Indicator Lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.13		<b>Side Reflex Reflector</b>			
		TAC No./ E-marking / BIS License No.			
2	Traction Batteries (AIS-048)	Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval.			
3.	Reflective Tape as per AIS-090	<b>Front Reflective Tape (White)</b>			
		TAC No./ E-marking / BIS License No.			
3.1		Rear Reflective Tape (Red)			
		TAC No./ E-marking / BIS License No.			
4.0	Horn (IS 1884)				
4.1		<b>High Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
4.2		<b>Low Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
5.0	Rear view mirror	Interior mirror – Fitted (Yes/No)			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
6.0	<b>Safety Glass IS 2553 (Part 2) if fitted.</b>				
6.1		<b>Front Windshield safety glass</b>			
		TAC No./ E-marking / BIS License No.			
6.2		<b>Side windows safety glass</b>			
		TAC No./ E-marking / BIS License No.			
6.3		<b>Rear safety glass</b>			
		TAC No./ E-marking / BIS License No.			

**Appendix-B-3: RESULTS OF THE STATIC VERIFICATION OF THE VEHICLE  
UNDER WVSCOP APPROVAL (For M1 and N1 Category vehicles)**

[See Clause No. 6.1, Table-5 of AIS-017 (Part 6): 2020]

REPORT NO.: -----

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1	HLLD (AIS-008)	Check for fitment of device as approved in TA			
2	Lighting & Light signaling devices AIS-008	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)			
2.1		<b>Main beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.2		<b>Dipped beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.3		<b>Front Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.4		<b>Front direction indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.5		<b>Daytime Running lamp (If provided)</b>			
		TAC No./ E-marking / BIS License No.			
2.6		<b>Cornering lamp (If provided)</b>			
		TAC No./ E-marking / BIS License No.			
2.7		<b>Front fog lamp</b>			
	TAC No./ E-marking / BIS License No.				



Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
2.8	Lighting & Light signaling devices AIS-008	<b>Front Retro Reflector</b>			
		TAC No./ E-marking / BIS License No.			
2.9		<b>Stop lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.10		<b>Rear Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.11		<b>Reversing lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.12		<b>Rear Direction Indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.13		<b>Rear fog lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.14		<b>Rear retro reflector</b>			
		TAC No./ E-marking / BIS License No.			
2.15		<b>High mounted stop lamp</b>			
	TAC No./ E- marking / BIS License No.				
2.16	Lighting & Light signaling devices AIS-008	<b>Rear Registration plate lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.17		<b>Front End outline marker lamps (If fitted)</b>			
	TAC No./ E-marking / BIS License No.				
2.18		<b>Rear End outline marker lamps (If fitted)</b>			
		TAC No./ E-marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
2.19		<b>Side marker lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.20		<b>Side Direction Indicator Lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.21		<b>Side Reflex Reflector</b>			
		TAC No./ E-marking / BIS License No.			
3.0	Horn (IS 1884)				
3.1		<b>High Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
3.2		<b>Low Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
4.1	Rear view mirror (AIS-001)	<b>Interior mirror [ Class I ]</b>			
		TAC No./ E-marking / BIS License No.			
4.2		<b>Main mirror (Small) [ Class III ]</b>			
		TAC No./ E- marking / BIS License No.			
5.0	<b>Windscreen wiping system [ IS: 15802, IS: 15804 ]</b>				
5.1 to 5.4	(Reserved)				
5.5		Wiping Frequency Check			
6.0	<b>Safety Glass [ IS 2553(Part 2) ]</b>				
6.1		<b>Front Windshield safety glass</b>			
		TAC No./ E- marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
6.2		<b>Side windows safety glass</b>			
		TAC No./ E-marking / BIS License No.			
6.3		<b>Rear safety glass</b>			
		TAC No./ E-marking / BIS License No.			
7.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted				
8.0	<b>Spray suppression device (AIS-013 )</b>	Marking on the spray suppression device			
9.0	<b>CNG / LPG vehicles (AIS-024, AIS-025, AIS-026, AIS-028)</b>				
9.1		<b>Gas cylinder</b>			
		Serial No. of the Gas cylinder as per PESO approval			
9.2		<b>CNG Pressure Regulator</b>			
		TAC No./ E-marking / BIS License No.			
9.3		<b>LPG Pressure regulator / vaporizer</b>			
		TAC No./ E-marking / BIS License No.			
10	Tyres IS 15633/ IS 15636	BIS marking or marking as per AIS-037, as applicable			
		Front Tyres			
		Rear Tyres			
		Spare Tyres			
11	Seat belt IS 15140	Marking as per AIS-037 (M1 category)			
		Fitment check			
12	Traction Batteries AIS 048	Marking as per AIS-037			

**Appendix-B-4 : RESULTS OF THE STATIC VERIFICATION OF THE VEHICLE  
UNDER WVSCOP APPROVAL (for M2, M3, N2 and N3 Category vehicles)**

[See Clause No. 6.1, Table-5 of AIS-017 (Part-6): 2020]

REPORT NO.: -----

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1	HLLD (AIS-008)	Check for fitment of device as approved in TA			
2	Lighting & Light signaling devices AIS-008	Marking as per AIS-037 for all Mandatory lighting & Signaling devices (Excluding Bulbs)			
2.1		<b>Main beam head lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.2		<b>Dipped beam head lamp</b>			
		TAC No./ E- marking / BIS License No.			
2.3		<b>Front Position / Parking lamp</b>			
		TAC No./ E- marking / BIS License No.			
2.4		<b>Front direction indicator lamp</b>			
		TAC No./ E- marking / BIS License No.			
2.5		<b>Daytime Running lamp (If provided)</b>			
		TAC No./ E-marking / BIS License No.			
2.6		<b>Cornering lamp (If provided)</b>			
		TAC No./ E-marking / BIS License No.			
2.7		<b>Front fog lamp</b>			
	TAC No./ E-marking / BIS License No.				
2.8	Lighting & Light signaling	<b>Front Retro Reflector</b>			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
	devices AIS-008	TAC No./ E-marking / BIS License No.			
2.9		<b>Stop lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.10		<b>Rear Position / Parking lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.11		<b>Reversing lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.12		<b>Rear Direction Indicator lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.13		<b>Rear fog lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.14		<b>Rear retro reflector</b>			
		TAC No./ E-marking / BIS License No.			
2.15		<b>High mounted stop lamp</b>			
	TAC No./ E-marking / BIS License No.				
2.16	Lighting & Light signaling devices AIS-008	<b>Rear Registration plate lamp</b>			
		TAC No./ E- marking / BIS License No.			
2.17		<b>Front End outline marker lamps</b>			
	TAC No./ E-marking / BIS License No.				
2.18		<b>Rear End outline marker lamps</b>			
		TAC No./ E-marking / BIS License No.			
2.19		<b>Side marker lamp</b>			
		TAC No./ E-marking / BIS License No.			

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
2.20		<b>Side Direction Indicator Lamp</b>			
		TAC No./ E-marking / BIS License No.			
2.21		<b>Side Reflex Reflector</b>			
		TAC No./ E-marking / BIS License No.			
3.0	Reflective Tape as per AIS-090	<b>Front Reflective Tape (White)</b>			
		TAC No./ E-marking / BIS License No.			
3.1		<b>Rear Reflective Tape (Red)</b>			
		TAC No./ E-marking / BIS License No.			
3.2		<b>Side Reflective Tape (Amber)</b>			
		TAC No./ E-marking / BIS License No.			
3.3	Rear marking plate as per AIS-089	Fitment : Yes/No/Not Applicable			
4.0	Horn (IS 1884)				
4.1		<b>High Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
4.2		<b>Low Tone horn</b>			
		TAC No./ E-marking / BIS License No.			
5.0	Rear view mirror (AIS-001)	<b>Interior mirror [ Class I ]</b>			
		TAC No./ E-marking / BIS License No.			
5.1		<b>Main mirror (Large) [ Class II ]</b>			
		TAC No./ E-marking / BIS License No.			
5.2		<b>Main mirror (Small) [ Class III ]</b>			


Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
		TAC No./ E-marking / BIS License No.			
5.3		<b>Wide angle mirror [ Class IV ]</b>			
		TAC No./ E-marking / BIS License No.			
5.4		<b>Close proximity mirror [ Class V ]</b>			
		TAC No./ E-marking / BIS License No.			
5.5		<b>Front mirror [ Class VI ]</b>			
		TAC No./ E-marking / BIS License No.			
6.0	<b>Mounting location of the Rear view mirrors</b> as per type approval (AIS-002 )				
7.0	<b>Windscreen wiping system [ IS: 15802, IS: 15804 ]</b>				
7.1 to 7.4	(Reserved)				
7.5		Wiping Frequency Check			
8.0	<b>Safety Glass [ IS 2553 (Part 2) ]</b>				
8.1		<b>Front Windshield safety glass</b>			
		TAC No./ E-marking / BIS License No.			
8.2		<b>Side windows safety glass</b>			
		TAC No./ E-marking / BIS License No.			
8.3		<b>Rear safety glass</b>			
		TAC No./ E-marking / BIS License No.			



Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
9.0	<b>Passenger hand hold (AIS-046):</b> Whether fitted				
10.0	<b>Spray suppression device(AIS-013)</b>	Marking on the spray suppression device			
11.0	<b>CNG / LPG vehicles (AIS-024 , AIS-025 , AIS-026, AIS-028)</b>				
11.1		<b>Gas cylinder</b>			
		Serial No. of the Gas cylinder as per PESO approval			
11.2		<b>CNG Pressure Regulator</b>			
		TAC No./ E-marking / BIS License No.			
11.3		<b>LPG Pressure regulator / vaporizer</b>			
		TAC No./ E-marking / BIS License No.			
12	Tyres IS 15636	BIS marking or marking as per AIS-037, as applicable			
		Front Tyres			
		Rear Tyres			
		Spare Tyres			
		Other Tyres			
13	RUPD (IS 14812)	Mounting as per approved layout			
14	SUPD (IS 14682)	Mounting as per approved layout			
15	Seat belt IS 15140	Marking as per AIS-037 (M1 category)			
		Fitment check			
16	Traction Batteries AIS-048	Marking as per AIS-037			
17	FUPD AIS-069	Mounting as per approved layout			





**ANNEXURE C : FORMAT FOR TEST REPORT OF WVSCOP VEHICLE TESTS**


**Appendix C-1 : WVSCoP Test Report for Vehicle Performance tests  
(for L category vehicles)**

Report No. :							
Fuel :		Gasoline / Diesel / CNG / LPG / Electric					
Details of vehicle WVSCoP family		(Details as per Table 1 shall be provided for the particular WVSCoP family)					
Test Site :							
<b>CMV Rule No.</b>	<b>PARAMETER</b>	<b>TEST RESULTS</b>					
<b>96</b>	<b>Brake Test (IS:11852) - Type P test - Engine Disconnected (For L7 category vehicles)</b>					<u>Service Brake</u> Make - <b>M/s.</b> Type :	
	<b>A.Dynamic Test</b> 	Initial Speed	Control force (kg)	Stopping distance (m)		MFDD (m/s <sup>2</sup> )	
				Observed	Limits	Observed	Limits
	Service Brake (Clause 3.2.2.1)	Laden					<u>Front Brake -Drum / Disc</u> Make of Liners / Pads - <b>M/s.</b> Material - <b>Asbestos / Non Asbestos</b> Dimension, mm – x x Effective Diameter of Drum/Disc - mm Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b>
Unladen						<u>Rear Brake-Drum / Disc</u> Make of Liners / Pads - <b>M/s.</b> Material - <b>Asbestos / Non Asbestos</b> Dimension, mm – x x Effective Diameter of Drum/Disc - mm Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b>	
						<u>Parking</u> Make - <b>M/s.</b> Type - <b>Spring brake</b> Effective area - <b>cm<sup>2</sup></b> Dimension, mm - x x Size - <b>mm</b>	
						<u>Booster (Power Assistance)</u> Make - <b>M/s.</b> Size - <b>mm</b> Magnification Ratio -	
						<u>Engine</u> Make - <b>M/s.</b> Model - Type - Max. Power - <b>kW@ rpm</b>	
						<u>Gear Box</u> - Make model speed & type Drive Axle Ratio –	
						Wheel Base - <b>mm</b> Tyres - <b>All are</b> Brake Circuit Drawing No. Max. Speed of Vehicle - <b>km/h</b>	
						<b>Test conducted for WVCOP compliance</b>	
	Secondary Brakes (Clause 4.1.2)	Laden					

Report No. :							
<b>CMV Rule No.</b>	<b>PARAMETER</b>		<b>TEST RESULTS</b>				
	<b>96 Brake Test (IS:14664) - Type P test (For L1, L2 &amp; L5 category vehicles)</b>					<b>Service Brake-</b> Make : <b>M/s.</b> Type :  <b>Front Brake -Drum / Disc</b> Make of Liners / Pads - <b>M/s.</b> Material - <b>Asbestos / Non Asbestos</b> Dimension, mm – <b>x x</b> Effective Diameter of Drum/Disc - <b>mm</b> Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b>  <b>Rear Brake-Drum / Disc</b> Make of Liners / Pads - <b>M/s.</b> Material - <b>Asbestos / Non Asbestos</b> Dimension, mm – <b>x x</b> Effective Diameter of Drum/Disc - <b>mm</b> Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b>  <b>Engine</b> Make - <b>M/s.</b> Model - Type - Max. Power - <b>kW@ rpm</b>  <b>Gear Box</b> - Make model speed & type Primary Transmission Ratio – Secondary Transmission Ratio –  Wheel Base - <b>mm</b> Tyres - <b>All are</b> Brake Circuit Drawing No. Max. Speed of Vehicle - <b>km/h</b>  <b>Test conducted for WVCOP compliance</b>	
<b>A.Dynamic Test</b> 	Initial Speed	Control force (kg)	Stopping distance (m)	MFDD (m/s <sup>2</sup> )		Observed	Limits
				Observed	Limits		
Front Brake	Laden						
	Unladen						
Rear Brakes	Laden						
	Unladen						
<b>98(3) Steering Effort Test (IS:11948)</b>				Max. Limit(kg)		Tyre - <b>All are</b> <b>Steering Gear Box</b>  Make - <b>M/s.</b> Type - Ratio -  Steering Wheel outer dia. - <b>mm</b> Wheelbase - <b>mm</b>  <b>Test conducted for WVCOP compliance as per AIS-017 Part 6:2020 (Table 5.)</b>	
	Steering Effort, kg	LH turn		with Power Assistance / Mechanical Steering			<b>15</b>
RH turn					<b>15</b>		
LH turn		with Power Assistance Failure			<b>30</b>		
RH turn					<b>30</b>		



CMV Rule No.	PARAMETER	TEST RESULTS		
<b>120</b>  Noise level measurement  Pass-by Noise Level  (IS : 3028)  			Limit as per CMVR	Tyre -All are Drive Axle Ratio –  <u>Gear Box</u> -Make model speed & type Tested Gear Ratio 2nd Gear Ratio – 3rd Gear Ratio – 4th Gear Ratio –  <u>Engine</u> Make -M/s. Model - Type - Displacement - cm3 Max. Power - kW @ rpm  <u>Intake System</u> Drawing No. -  <u>Air Filter Assembly</u> Make -M/s. Type- ID / Part No. -  <u>Exhaust System Details</u> Drawing No. - Catalytic converter provided-Yes / No <u>Silencer / Pre-Silencer / Post-Silencer</u> Make -M/s. Type - ID / Part No. - Wheel base- mm <b>Test conducted for WVCOP compliance as per AIS 017 Part 6 (2020) (Table 5)</b>
	In XXXXXXXXX Gear	<b>Engine Speed</b>  rpm	XX dB(A)  @ XX.X km/h	XX dB(A)
119	Horn installation test [[dB(A) level test as per clause 6 of IS 15796]]			
124	Verification of protection against electric shock			Clause no. 3.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev. 1) for type approval.)
124	Washing Test			Clause no. 3.5.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)
---	Weight measurement (IS : 11825)			
	Unladen	Specified	Measured	
	FAW, kg			
	RAW, kg			
	Total Unladen Weight, kg			
	Laden	Specified	Measured	
	FAW, kg			
	RAW, kg			
	Gross Vehicle Weight, kg			
	Initiated by	Verified by		Authorized by
Date				



**Appendix C-2 : WVSCoP Test Report for Vehicle Performance tests  
(for E-rickshaws & E-carts)**

Report No. :			
Fuel :	Electric		
Details of vehicle WVSCoP family	(Details as per Table 1 shall be provided for the particular WVSCoP family)		
Test Site :			
<b>CMV Rule No.</b>	<b>PARAMETER</b>	<b>TEST RESULTS</b>	
124	Verification of protection against electric shock		Clause 3.2 of AIS-038 or Clause No. 3.1 of AIS-038 (Rev. 1)
124	Washing Test		Clause 3.5.1 of AIS-038 or Clause No. 3.5.1 of AIS-038 (Rev. 1)
124	Measurement of Net power & maximum speed	Motor power = ...kW Max. speed = ...km/h	AIS-041
---	Weight measurement (IS : 11825)		
	Unladen	Specified	Measured
	FAW, kg		
	RAW, kg		
	Total Unladen Weight, kg		
	Laden	Specified	Measured
	FAW, kg		
	RAW, kg		
	Gross Vehicle Weight, kg		
119	Horn installation test (dB(A)) level test as per clause 6 of IS 15796.		

	Initiated by	Verified by	Authorized by
Date			



**Appendix C-3: WVSCoP Test Report for Vehicle Performance Tests (for M1 and N1 category vehicles)**

Report No. :							
Fuel :		Gasoline / Diesel / CNG / LPG/Electric					
Details of vehicle family		(Details as per Table 1 shall be provided for the particular WVSCoP family)					
Test Site :							
<b>CMV Rule No.</b>	<b>PARAMETER</b>		<b>TEST RESULTS</b>				
	<b>96</b>		<b>Brake Test (IS 11852 / IS 15986 / AIS-151) - Type P / O test - Engine Disconnected</b>				
	<b>A.Dynamic Test</b> 	Initial Speed	Control force (kg)	Stopping distance (m)		MFDD (m/s <sup>2</sup> )	
				Observed	Limits	Observed	Limits
	Service Brake Test (as per Table 5.2 of AIS-017 (Part 6))	Laden					
	Unladen						
	Secondary Brake Test (as per Table 5.2 of AIS-017 (Part 6))	Laden					
<p><b>Service Brake-</b> Make : <b>M/s.</b> Type :</p> <p><b>Front Brake -Drum / Disc</b> Make of Liners / Pads -<b>M/s.</b> Material -<b>Asbestos / Non Asbestos</b> Dimension, mm - <b>x x</b> Effective Diameter of Drum/Disc - <b>mm</b> Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b></p> <p><b>Rear Brake-Drum / Disc</b> Make of Liners / Pads -<b>M/s.</b> Material -<b>Asbestos / Non Asbestos</b> Dimension, mm - <b>x x</b> Effective Diameter of Drum/Disc - <b>mm</b> Effective area - <b>cm<sup>2</sup></b> Wheel Cylinder diameter - <b>mm</b></p> <p><b>Parking</b> Make - <b>M/s.</b> Type - <b>Spring brake</b> Effective area - <b>cm<sup>2</sup></b> Dimension, mm - <b>x x</b> Size - <b>mm</b></p> <p><b>Booster (Power Assistance)</b> Make - <b>M/s.</b> Size - <b>mm</b> Booster ratio -</p> <p><b>Engine</b> Make - <b>M/s.</b> Model - Type - Max. Power - <b>kW@ rpm</b></p> <p><b>Gear Box</b> - Make model speed &amp; type Drive Axle Ratio -</p> <p>Wheel Base - <b>mm</b> Tyres -<b>All are</b> Brake Circuit Drawing No. Max. Speed of Vehicle - <b>km/h</b></p> <p><b>Test conducted for WVCOP compliance</b></p>							
98(3)	<b>Steering Effort Test (IS:11948)</b>				Max. Limit(kg)		<p>Tyre -<b>All are</b> <b>Steering Gear Box</b></p> <p>Make -<b>M/s.</b> Type - Ratio -</p> <p>Steering Wheel outer dia. - <b>mm</b> Wheelbase - <b>mm</b></p> <p><b>Test conducted for WVCOP compliance as per AIS 017 Part 6: 2020 (Table 5)</b></p>
	Steering Effort, kg	LH turn	with Power Assistance / Mechanical Steering		15		
		RH turn			15		
		LH turn	with Power Assistance Failure		30		
		RH turn			30		



Report No. :					
CMV Rule No.	PARAMETER	TEST RESULTS			
120	<b>Noise level measurement</b> Pass-by Noise Level (IS : 3028)  			Limit as per CMVR	<u>Tyre -All are</u> Drive Axle Ratio –  <u>Gear Box</u> -Make model speed & type Tested Gear Ratio 2nd Gear Ratio - 3rd Gear Ratio –  <u>Engine</u> Make -M/s. Model - Type - Displacement -       cm3 Max. Power - kW @   rpm  <u>Intake System</u> Drawing No. - <u>Air Filter Assembly</u> Make -M/s. Type- ID / Part No. - <u>Exhaust System Details</u> Drawing No. - Catalytic converter provided-Yes / No <u>Silencer / Pre-Silencer / Post-Silencer</u> Make -M/s. Type - ID / Part No. - Wheel base-         mm  Test conducted for WVCOP compliance as per AIS 017 Part 6 :2020 (Table 5)
	In XXXXXXXXX Gear	<b>Engine Speed</b>  rpm	XX dB(A)  @ XX.X km/h	XX dB(A)	
119	Horn installation test (dB(A) level test as per clause 6 of IS 15796)				
124	Verification of protection against electric shock			Clause no. 3.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)	
124	Washing Test			(Clause no. 3.5.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)	
---	Weight measurement (IS : 11825)				
	Unladen	Specified	Measured		
	FAW, kg				
	RAW, kg				
	Total Unladen Weight, kg				
	Laden	Specified	Measured		
	FAW, kg				
	RAW, kg				
Gross Vehicle Weight, kg					
117	SLF , as applicable	Testing to verify lock speed as per clause 5.7.3.4.1 of AIS 018:2001			
	ECU make and country of origin / plant address				

	ECU Calibration ID:		
	–Vehicle speeds for which SLD/SLF approved (km/h):		
	Earlier test report number(s) or copy of test report if issued by other test agency.		
	Initiated by	Verified by	Authorized by
Date			

**Appendix C-4 : WVSCoP Test Report for Vehicle Performance Tests (for M2, M3, N2 and N3 category vehicles)**

Report No. :							
Fuel :		Gasoline / Diesel / CNG / LPG/Electric					
Details of vehicle family		(Details as per Table 1 shall be provided for the particular WVSCoP family)					
Test Site :							
<b>CMV Rule No.</b>	<b>PARAMETER</b>	<b>TEST RESULTS</b>					
<b>96</b>	<b>Brake Test (IS:11852) - Type P / O test - Engine Disconnected</b>					<b>Service Brake-</b> Make : M/s. Type :  <b>Front Brake -Drum / Disc</b> Make of Liners / Pads -M/s. Material -Asbestos / Non Asbestos Dimension, mm - x x Effective Diameter of Drum/Disc - mm Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm  <b>Rear Brake-Drum / Disc</b> Make of Liners / Pads -M/s. Material - Asbestos / Non Asbestos Dimension, mm - x x Effective Diameter of Drum/Disc - mm Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm  <b>Parking</b> Make - M/s. Type - Spring brake Effective area - cm <sup>2</sup> Dimension, mm - x x Size - mm  <b>Engine</b> Make - M/s. Model - Type - Max. Power - kW@ rpm  <b>Gear Box</b> - Make model speed & type Drive Axle Ratio - Wheel Base - mm Tyres -All are Brake Circuit Drawing No. - Max. Speed of Vehicle - km/h  <b>Test conducted for WVCOP compliance</b>	
	<b>A.Dynamic Test</b> 	Initial Speed	Control force (kg)	Stopping distance (m)		MFDD (m/s <sup>2</sup> )	
				Observed	Limits	Observed	Limits
	Service Brake Test (as per Table 5.2 of AIS-017 (Part 6))	Laden					
	Unladen						
	Secondary Brake Test (as per Table 5.2 of AIS-017 (Part 6))	Laden					
<b>98(3)</b>	<b>Steering Effort Test (IS:11948)</b>				Max. Limit(kg)		Tyre -All are <b>Steering Gear Box</b> Make -M/s. Type - Ratio - Steering Wheel outer dia. - mm Wheelbase - mm  <b>Test conducted for WVCOP compliance as per AIS-017 Part 6 : 2020 (Table 5)</b>
	Steering Effort, kg	LH turn	with Power Assistance / Mechanical Steering		<b>15</b>		
		RH turn			<b>15</b>		
	Steering Effort, kg	LH turn	with Power Assistance Failure		<b>30</b>		
		RH turn			<b>30</b>		



Report No. :					
CMV Rule No.	PARAMETER	TEST RESULTS			
120	<b>Noise level measurement</b> Pass-by Noise Level (IS : 3028)  			Limit as per CMVR	Tyre -All are Drive Axle Ratio – <b>Gear Box</b> -Make model speed & type Tested Gear Ratio 3rd Gear Ratio – 4th Gear Ratio – 5th Gear Ratio –  <b>Engine</b> Make -M/s. Model - Type - Displacement - cm <sup>3</sup> Max. Power - kW @ rpm <b>Intake System</b> Drawing No. - <b>Air Filter Assembly</b> Make -M/s. Type- ID / Part No. - <b>Exhaust System Details</b> Drawing No. - Catalytic converter provided-Yes / No <b>Silencer / Pre-Silencer / Post-Silencer</b> Make -M/s. Type - ID / Part No. - Wheel base- mm  Test conducted for WVCOP compliance as per AIS-017 Part 6 : 2020 (Table 5)
	In XXXXXXXXX Gear	<b>Engine Speed</b>  rpm	XX dB(A)  @ XX.X km/h	XX dB(A)	
119	Horn installation test (dB(A) level test as per clause 6 of IS 15796:2008)				
124	Verification of protection against electric shock			Clause no. 3.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)	
124	Washing Test			Clause no. 3.5.1 of AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)	
---	Weight measurement (IS : 11825)  				
	Unladen	Specified	Measured		
	FAW, kg				
	RAW, kg				
	Total Unladen Weight, kg				
	Laden	Specified	Measured		
	FAW, kg				

	RAW, kg		
	Gross Vehicle Weight, kg		
117	SL, as applicable	Testing to verify lock speed as per clause 5.7.3.4.1 of AIS-018:2001	
	ECU make and country of origin / plant address 1.		
	ECU Calibration ID:		
	Vehicle speeds for which SLD/SLF approved (km/h):		
	Earlier test report number(s) or copy of test report if issued by other test agency.		
	Initiated by	Verified by	Authorized by
Date			

**ANNEXURE D**

**FORMAT OF WVSCOP CERTIFICATE**

XXXXXXXXXXXXX (Certificate No.)

Date: XXXXXXXX

**CERTIFICATE  
FOR  
WHOLE VEHICLE SAFETY CONFORMITY OF PRODUCTION (WVSCOP)**

- Based on the verification of documents, inspections and tests conducted on the vehicle model(s) “XXXXXXXXXX”, manufactured by XXXXXXXXXXXX <<Organization name>>and randomly selected from XXXXXXXXXXXX <<plant(s)/premise(s)>>, it is certified that the WVSCoP family model(s) comply with the following provisions of the Central Motor Vehicles Rules, 1989.

MoRTH Noti. No.	Date	CMV Rule	Effective From	Standard
XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	AIS-017 (Part 6):2020

- This certificate covers the following WVSCoP family, its vehicle models and their variants, listed in Table below, declared by the manufacturer and/or importer and planned to be produced / imported as per manufacturer’s and/or importer’s declaration during the stipulated period.

WVSCoP Family:		CMVR Certificate No. and Date	Plant(s) / premises produced or imported	WVSCoP Period
Sr. No.	Name of vehicle model and its variant(s)			
1				
2				

**Note:** Please refer Annexure A for “Disclaimer Clause”

- Next WVSCoP to be established on or before:

**AUTHORISED SIGNATORY**

**AUTHORISED SIGNATORY**

**Appendix D-1 WVSCoP Requirements verified on the vehicle under WVSCoP approval**

**WVSCoP Certificate No.....**

Following requirements are verified and found to be complying.

Sl. No	Parameter	Reference standard	L1 & L2 (2W)	L5 (3W)	L7 (Quadricycle)	E-rickshaws & E-carts	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)
1	Lighting & Light signaling devices	AIS-008 / AIS-009						
2	Reflective tape	AIS-090	<u>NA</u>		<u>NA</u>		<u>NA</u>	
3	Rear Marking plate (For Trucks Only)	AIS-089	NA	NA	NA	NA	NA	
4	Horn	IS 15796 IS 1884						
5	Rear View Mirror	AIS-001 AIS-002 (mounting arrangements)	NA	NA	NA	NA NA (Check whether mirror fitted)	NA	
6	Windscreen wiping	IS 15802/ IS 15804/ AIS-045	NA			NA		
7	Safety glass	IS 2553 (Part 2)	<u>NA</u>					
8	Passenger handholds / Pillion hold	AIS-046 / IS 14495				NA		
9	Spray Suppression Device	AIS-013 / AIS-103	NA	NA	NA	NA	NA	
10	Brake	IS 11852 / IS 15986/ AIS-151/ IS 14664				NA		
11	Pass by Noise	IS 3028				NA		
12	Steering	IS 11948	NA			NA		

**AIS-017(Part 6)**

Sl. No	Parameter	Reference standard	L1 & L2 (2W)	L5 (3W)	L7 (Quadricycle)	E-rickshaws & E-carts	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)
13	Tyres	IS 15627 / IS 15633 / IS 15636				NA		
14	RUPD	IS 14812	NA	NA	NA	NA	NA	
15	SUPD	IS 14682	NA	NA	NA	NA	NA	
16	Seat belt	IS 15140	NA	NA		NA		
17	CNG / LPG Vehicles	AIS-024 / AIS-025 / AIS-026 / AIS-027 / AIS-028				NA		
18	Traction Batteries	AIS-048*						
19	SLF	AIS-018	NA	NA	NA	NA		
20	FUPD	AIS-069	NA	NA	NA	NA	NA	
21	Protection against electric shock	AIS-038/AIS-038 (Rev.1)*				NA		
22	Washing Test	AIS-038/AIS-038 (Rev.1)*				NA		
24	Measurement of Net power & maximum speed	AIS-041*	NA	NA	NA		NA	NA

\* - Applicable to all those vehicles which need to comply with respective standards mentioned in column-3 for type approval.

**ANNEX E**  
(See Introduction)

**COMPOSITION OF AISC PANEL**

	<b>Name</b>	<b>Organization</b>
1.	Mr. S. Ravishankar (Convener)	Ashok Leyland Ltd. (SIAM)
2.	Mr. A. A. Badusha (Co-convener)	The Automotive Research Association of India
	<b>Members</b>	<b>Representing</b>
3.	Mr. A. V. Mannikar	The Automotive Research Association of India
4.	Mr. A. A. Deshpande	The Automotive Research Association of India
5.	Mr. U. A. Kulkarni	The Automotive Research Association of India
6.	Mr. P. D. Betgeri	The Automotive Research Association of India
7.	Mr. B. V. Shamsundara	The Automotive Research Association of India
8.	Mr. Abhijit B. Mulay	The Automotive Research Association of India
9.	Mr. Manoj Desai	The Automotive Research Association of India
10.	Dr. Abhijeet Marathe	The Automotive Research Association of India
11.	Mr. Vishwas A. Khedekar	The Automotive Research Association of India
12.	Mr. S. H. Nikam	The Automotive Research Association of India
13.	Mr. V. P. Rawal	The Automotive Research Association of India
14.	Mr. Samir Sattigeri	Central Institute of Road Transport
15.	Mr. S. N. Dhole	Central Institute of Road Transport
16.	Mr. M. M. Pathak	Central Institute of Road Transport
17.	Mr. S. Hasan Ali	Central Institute of Road Transport
18.	Mr. M. K. Chaudhari	Central Institute of Road Transport
19.	Mr. Tagad Nilesh	Central Institute of Road Transport
20.	Ms. Shubhangi Dalvi	Central Institute of Road Transport
21.	Ms. Vijayata Ahuja	International Centre for Automotive Technology
22.	Mr. Sharma	International Centre for Automotive Technology
23.	Mr. P. K. Banerjee	SIAM
24.	Mr. M. Ravi	SIAM (Ashok Leyland Ltd.)
25.	Mr. D. Balakrishnan	SIAM (Ashok Leyland Ltd.)
26.	Mr. N. Muthukumar	SIAM (Ashok Leyland Ltd.)
27.	Ms. Suchismita Chatterjee	SIAM (Ashok Leyland Ltd.)
28.	Mr. Arvind V. Kumbhar	SIAM (Bajaj Auto Ltd.)
29.	Mr. Prashant B. Jadhav	SIAM (Bajaj Auto Ltd.)
30.	Mr. Dharmendra Singh	SIAM (BMW India Pvt. Ltd.)
31.	Mr. Sivaraman S	SIAM (Daimler India Commercial Veh. Pvt. Ltd.)
32.	Mr. Dyaneswaran P	SIAM (Daimler India Commercial Veh. Pvt. Ltd.)
33.	Mr. A. S. Ravikumar	SIAM (Daimler India Commercial Veh. Pvt. Ltd.)
34.	Mr. Girish S Kodolikor	SIAM (Force Motors Ltd.)
35.	Mr. Suraj R. Supekar	SIAM (Force Motors Ltd.)
36.	Mr. Pankaj Kumar Karn	SIAM (Ford India Pvt. Ltd.)
37.	Mr. Hemant Alne	SIAM (Force Motors Ltd.)
38.	Mr. Ronak Shah	SIAM (General Motors India Ltd.)
39.	Mr. Harjeet Singh	SIAM (Hero Moto. Corp. Ltd.)
40.	Mr. T. M. Balaraman	SIAM (Hero Moto. Corp. Ltd.)
41.	Mr. Feroz Khan	SIAM (Hero Moto. Corp. Ltd.)
42.	Mr. Danish Gazali	SIAM (Hero Moto. Corp. Ltd.)
43.	Mr. Piyush Chowdhry	SIAM (Hero Moto. Corp. Ltd.)
44.	Mr. Venu Suresh C	SIAM (India Yamaha Motors)

45.	Mr. Vishal Jain	SIAM (Isuzu Motor)
46.	Mr. C. Sekar	SIAM (Isuzu Motors India)
47.	Mr. Rahul Righwani	SIAM (Isuzu Motors India)
48.	Mr. Ashish Sharma	SIAM (Hero Moto. Corp. Ltd.)
49.	Mr. S. Muthu Kumar	SIAM (Honda Cars R&D India Ltd.)
50.	Representative from	SIAM (Hyundai)
51.	Mr. Karan Rajput	SIAM (Honda Motorcycle and Scooter India Pvt. Ltd.)
52.	Mr. Sandeep Miskeen	SIAM (Honda Motorcycle and Scooter India Pvt. Ltd.)
53.	Mr. Umesh Kumar Mourya	SIAM (Honda Cars India Ltd.)
54.	Mr. Vipin Sharma	SIAM (Honda Motorcycle & Scooter India)
55.	Mr. Alauddin Ali	SIAM (Jaguar Land Rover India Ltd.)
56.	Mr. Sakthivelan S	SIAM (Mahindra & Mahindra Ltd.)
57.	Mr. S. V. Kulkarni	SIAM (Mahindra & Mahindra Ltd.)
58.	Mr. Sanjay Babhulkar	SIAM (Mahindra & Mahindra Ltd.)
59.	Mr. Shailesh Kulkarni	SIAM (Mahindra & Mahindra Ltd.)
60.	Mr. V. G. Kulkarni	SIAM (Mahindra & Mahindra Ltd. -Truck & Bus Division)
61.	Ms. Pushpanjali	SIAM (Mahindra & Mahindra Ltd.)
62.	Mr. Abhishek Kumar	SIAM (Mahindra & Mahindra Ltd.)
63.	Mr. Rohit Wagh	SIAM (Mahindra & Mahindra Ltd.)
64.	Mr. Avinash Khot	SIAM (Mahindra Two Wheelers Ltd.)
65.	Mr. Alok Jaitely	SIAM (Maruti Suzuki India Ltd.)
66.	Mr. Sumit Sharma	SIAM (Maruti Suzuki India Ltd.)
67.	Mr. Gururaj Ravi	SIAM (Maruti Suzuki India Ltd.)
68.	Mr. Rajendra Raut	SIAM (Maruti Suzuki India Ltd.)
69.	Mr. Nikhil Desai	SIAM (Mercedes Benz India Pvt. Ltd.)
70.	Mr. Rajendra Khile	SIAM (Renault Nissan India Pvt. Ltd.)
71.	Mr. Vimal Ananthan T	SIAM (Renault Nissan India Pvt. Ltd.)
72.	Mr. Karuppasamy	SIAM (RNTBC)
73.	Mr. Babian Fernando G	SIAM (Scania CV India Pvt. Ltd.)
74.	Mr. Vinay Bijalwan	SIAM (Skoda Auto India Pvt. Ltd.)
75.	Mr. Sachin Joshi	SIAM (Skoda Auto India)
76.	Mr. Shridhar Basagoudar	SIAM (Skoda Auto India)
77.	Mr. Shrikant R. Tapase	SIAM (Skoda Auto India)
78.	Mr. Deepak Vashista	SIAM (SML Isuzu Ltd.)
79.	Mr. Sachin Bhat	SIAM (SML Isuzu Ltd.)
80.	Mr. Mohit Gupta	SIAM (SML Isuzu Ltd.)
81.	Mr. Sanchit Khare	SIAM (Suzuki Motorcycle Ind. Pvt. Ltd.)
82.	Mr. P. S. Gowrishankar	SIAM (Tata Motors Ltd.)
83.	Mr. Sharad Bhole	SIAM (Tata Motors Ltd.)
84.	Mr. Shailendra Dewangan	SIAM (Tata Motors Ltd.)
85.	Mr. Vinayaka KP	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
86.	Mr. Suchindran M	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
87.	Ms. Manjushri L.	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
88.	Mr. Channappa Revadi	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
89.	Mr. Darshan S. C	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
90.	Mr. Dinesh G. M	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
91.	Mr. Ganesh Shenoy	SIAM (Toyota Kirloskar Motor Pvt. Ltd.)
92.	Mr. MS Anand Kumar	SIAM (TVS Motor Company Ltd.)
93.	Mr. V. Muralidharan	SIAM (TVS Motor Company Ltd.)
94.	Mr. S. Gururajan	SIAM (TVS Motor Company Ltd.)
95.	Mr. Santosh Jagtap	SIAM (VE Commercial Vehicles Ltd.)
96.	Mr. Arjyashree Roul	SIAM (VE Commercial Vehicles Ltd.)

97.	Mr. Milind Jagtap	SIAM (Volkswagen India Pvt. Ltd.)
98.	Mr. Makarand Brahme	SIAM (Volkswagen India Pvt. Ltd.)
99.	Mr. Nachiket Deshpande	SIAM (Volkswagen India Pvt. Ltd.)
100.	Mr. Vikrant Lokhande	SIAM (Volvo Trucks VECV)
101.	Mr. Pramodkumar P. Hugar	SIAM (Volvo Buses)
102.	Mr. Uday Harite	ACMA
103.	Mr. P. Venugopal	ACMA (Brakes India Ltd.)
104.	Mr. Badal Borkar	Motorcycle Kinetic



**ANNEXURE F**  
(See Introduction)  
**COMMITTEE COMPOSITION \***

**Automotive Industry Standards Committee**

<b>Chairperson</b>	
Mrs. Rashmi Urdhwareshe	Director The Automotive Research Association of India, Pune
<b>Members</b>	<b>Representing</b>
Representative from	Ministry of Road Transport and Highways (Dept. of Road Transport and Highways), New Delhi
Representative from	Ministry of Heavy Industries and Public Enterprises (Department of Heavy Industry), New Delhi
Shri S. M. Ahuja	Office of the Development Commissioner, MSME, Ministry of Micro, Small and Medium Enterprises, New Delhi
Shri Shrikant R. Marathe	Former Chairman, AISC
Shri R.R. Singh	Bureau of Indian Standards, New Delhi
Director	Central Institute of Road Transport, Pune
Director	Global Automotive Research Centre
Director	International Centre for Automotive Technology, Manesar
Director	Indian Institute of Petroleum, Dehra Dun
Director	Indian Rubber Manufacturers Research Association
Director	Vehicles Research and Development Establishment, Ahmednagar
Representatives from	Society of Indian Automobile Manufacturers
Shri R. P. Vasudevan	Tractor Manufacturers Association, New Delhi
Shri Uday Harite	Automotive Components Manufacturers Association of India, New Delhi
Shri K. V. Krishnamurthy	Indian Construction Equipment Manufactures' Association (ICEMA), New Delhi

Member Secretary  
Shri Vikram Tandon  
Dy. General Manager  
The Automotive Research Association of India, Pune

\* At the time of approval of this Automotive Industry Standard (AIS)