### AMENDMENT NO. 3 (07/2023)

#### То

#### AIS-017(Part 6) : Procedure for Establishing Whole Vehicle Safety Conformity of Production (WVSCoP) for L, M, N category of vehicles, E-rickshaws & E-carts

#### 1. Page 11/65, Table 5

Substitute following	Sr. Nos.	6.11 and 17	7 for existing S	Sr. Nos. 6, 11 and 17
Substitute following	51. 1405.	$\cdot 0, 11$ und $1/$	ioi enisting c	$n_1 n_2 n_3 n_4 n_5 n_5 n_5 n_5 n_5 n_5 n_5 n_5 n_5 n_5$

SI. No	Parameter	Reference standard (see notes 2&3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quadri -cycle	E- ricksha w & E- cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3 (Trucks & Buses)	Remarks
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
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	

#### 2. Page 24/65, Table 8.1

Substitute following Sr. No. 8.1 for existing Sr. No. 8.1

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
8.1		Gas cylinder	
		Serial No. of the Gas cylinder as per PESO approval	

#### 3. Page 25/65, Table 8.2 read with amendment 1

Add following Sr. No. after existing Sr. No. 5.3

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
6.0	Rear view mirror	Main mirror, Fitted (Yes/No)	

#### 4. Page 28/65, Table 8.3

Substitute following Sr. Nos. 8.1 to 8.3 for existing Sr. Nos. 8.1 to 8.3

8.1		Gas cylinder	
	CNG / LPG vehicles (AIS-024, AIS-025, AIS-026, AIS-028)	Serial No. of the Gas cylinder as per PESO approval	

8.2	CNG Pressure Regulator	
	TAC No./ E-marking / BIS License No.	
8.3	LPG Pressure regulator / vaporizer	
	TAC No./ E-marking / BIS License No.	

#### 5. Page 28/65, Table 8.4

Substitute following Sr. Nos. 11.1 to 11.3 for existing Sr. Nos. 11.1 to 11.3

11.1		Gas cylinder	
		Serial No. of the Gas cylinder as per PESO approval	
11.2		CNG Pressure Regulator	
	CNG / LPG vehicles (AIS-024, AIS-025, AIS-026, AIS-028)	TAC No./ E-marking / BIS License No.	
11.3		LPG Pressure regulator / vaporizer	
		TAC No./ E- marking / BIS License No.	

#### 6. Page 36/65, Appendix-B-1, Sr. Nos. 5.1 to 5.4

Substitute following text for existing text

5.1 to 5.4	(Reserved)				
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#### 7. Page 36 /65, Appendix-B-1, Sr. No. 9.1, Column 3 (Parameter)

Substitute "Serial No. of the Gas cylinder as per PESO approval" for "BIS marking".

#### 8. Page 42 /65, Appendix-B-3, Sr. Nos. 5.1 to 5.4

Substitute following text for existing text

5.1 to (Reserved) 5.4				
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#### 9. Page 43 /65, Appendix-B-3, Sr. No. 9.1, Column 3 (Parameter)

Substitute "Serial No. of the Gas cylinder as per PESO approval" for "BIS marking".

#### 10. Page 47 /65, Appendix-B-4, Sr. Nos. 7.1 to 7.4

Substitute following text for existing text

7.1			
to	(Reserved)		
7.4			

#### 11. Page 48 /65, Appendix-B-4, Sr. No. 11.1, Column 3 (Parameter)

Substitute "Serial No. of the Gas cylinder as per PESO approval" for "BIS marking".

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ON BEHALF OF AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE UNDER CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE SET-UP BY MINISTRY OF ROAD TRANSPORT & HIGHWAYS (DEPARTMENT OF ROAD TRANSPORT & HIGHWAYS) GOVERNMENT OF INDIA

 $13^{th}$  July 2023

#### AMENDMENT No. 2 (07/2022)

To

#### AIS-017(Part 6): Procedure for Establishing Whole Vehicle Safety Conformity of Production (WVSCoP) for L, M, N category of vehicles, E-rickshaws & E-carts

#### 1. Page 3/65, Clause 4.1, Add following note after clause 4.1

**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.

#### 2. Page 24/65, Table 8.1, Substitute following Sr. No. 7 for existing Sr. No. 7

"			
	7.	(Reserved)	
,,			

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### ON BEHALF OF AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE UNDER CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE SET-UP BY MINISTRY OF ROAD TRANSPORT & HIGHWAYS (DEPARTMENT OF ROAD TRANSPORT & HIGHWAYS) GOVERNMENT OF INDIA 20<sup>th</sup> July 2022

#### AMENDMENT No. 1 (07/2021)

To

#### AIS-017(Part 6): Procedure for Establishing Whole Vehicle Safety Conformity of Production (WVSCoP) for L, M, N category of vehicles, E-rickshaws & E-carts

#### 0. Page IV, "Introduction"

Insert the following text after the third paragraph:

"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."

#### 1. Page 1/65, Clause 2.8

Substitute following Clause 2.8 for existing Clause 2.8:

"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. Page 4/65, Table 1, Row 1 – column 9

Substitute "Engine Capacity in cc (for ICE) / Motor power in kW" for "Engine Capacity in cc (for ICE)"

### 3. Page 10/65, Clause 6.1, Table 5, as given below:

Substitute following rows at Sl. Nos. below for existing rows at respective Sl. Nos.:

SI. No	Parame ter	Refer- ence stand- ard (see notes 2 & 3)	Checks & Tests	L1 & L2 (2W)	L5 (3W)	L7 (Quad ricycle	E- ricksh -aw & E- cart	M1 (Cars & UV's)	N1, N2, N3, M2 & M3(Trucks & Buses)	Remarks
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)
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							
		AIS-001	Marking as per AIS-037	Y	Y	Y	NA	Y	Y	
5.	Rear View Mirror		Check for class of Mirrors & marking as per TA	Y	Y	Y	NA	Y	Y	
		AIS-002	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))
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	
9	Spray Suppressi on 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 /	Two Wheelers (L1 & L2) and three wheelers (L5): Refer Table 5.1 below	Y	Y	Y	NA	Y	Y	

		IS 14664, IS 14664 AIS-049 for electric vehicles	4 wheelers (M&N) & Quadricycles (L7): Refer Table 5.2 below.							
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	
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
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 applica ble as per TA)	Y	below) (See Note 5 below)
21	Protecti on against electric shock	AIS- 038 / AIS- 038 (Rev.1) as applic- able	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 applic- able	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	Measure- ment of Net Power and Maximum Speed	A15-041	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
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#### 4. Page 13/65, Notes below Table 5

Substitute the following Note (3) for the existing Note (3) (3) The indicated standards shall be as applicable to the categories of the vehicles indicated in columns 5 to 10 above.

Add following new Notes (4) to (6) after Note (3)

"(4) Any electric vehicle manufactured (as permitted by advisory no RT-11036/72/2017-MVL dated 12<sup>th</sup> 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.

#### 5. Page 13/65, after Table 5.1

Add the following new Table 5.2 after Table 5.1

# 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	<ul> <li>Test shall be conducted only under the conditions mentioned in the following clauses of IS 11852(Part 3):2001</li> <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> </ul>
2	If type approval has been issued based on IS 15986	<ul> <li>Tests shall be conducted only under the conditions mentioned in the following clauses of IS 15986: 2015</li> <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> </ul>
3	If type approval has been issued based on AIS-151	<ul> <li>Tests shall be conducted only under the conditions mentioned in the following clauses of AIS-151: 2018</li> <li>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</li> <li>B-1.4.1.2.1.</li> <li>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> </ul>
4	If type approval has been issued based on IS 11852:2013	<ul> <li>Tests shall be conducted only under the conditions mentioned in the following clauses of IS 11852:2013</li> <li>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>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> </ul>

#### 6. Page 14/65, Clause 7.7

Substitute following text of clause 7.7. for existing text of clause 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. Page 19/65, Clause 8.9.1

Substitute following text of clause 8.9.1 for existing text of clause 8.9.1

"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."

#### 8. Page 24/65, Table 8.1, Sr. No. 11, Column 3 (Parameter)

Substitute "Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval" for "Marking as per AIS-037".

#### 9. Page 24/65, Table 8.1, Add following Sr. Nos. after existing Sr. No. 11

12.1		Front Reflective Tape (White)	
	Reflective Tape as per AIS-090 for L5	TAC No./ E-marking / BIS License No.	
12.2	category	Rear Reflective Tape (Red)	
		TAC No./ E-marking / BIS License No.	

#### 10. Page 25/65, Table 8.2, Sr. No. 2.0, Column 3 (Parameter)

Substitute "Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval" for "Marking as per AIS-037".

#### 11. Page 25/65, Table 8.2, Add following Sr. Nos. after existing Sr. No. 2

3.1		Front Reflective Tape (White)	
	Reflective Tape	TAC No./ E-marking / BIS License No.	
3.2	as per AIS-090	Rear Reflective Tape (Red)	
		TAC No./ E-marking / BIS License No.	
4.1	Horn	High Tone horn	
	— (IS 1884)	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	Front Windshield safety glass	
	— (Part 2), if fitted]	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.	

# 12. Page 32/65, Annexure A, 3.0, DETAILS OF THE VEHICLE UNDER EVALUATION:

Substitute "Engine No./ Electric motor No." for "Engine No.". Substitute "Engine capacity / Electric motor power" for "Engine capacity".

#### 13. Page 37 /65, Appendix-B-1, Sr. No. 12, Column 3 (Parameter)

Substitute "Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval" for "Marking as per AIS-037".

#### 14. Page 37/65, Appendix-B-1, Add following Sr. Nos. after existing Sr. No. 12

13.0	Reflective	Front Reflective Tape (White)		
	Таре	TAC No./ E-marking / BIS License No.		
13.1	as per AIS-090 for	Rear Reflective Tape (Red)		
	L5 category	TAC No./ E-marking / BIS License No.		

#### 15. Page 39/65, Appendix-B-2, Sr. No. 2, Column 3 (Parameter)

Substitute "Marking as per AIS-037 for vehicles which need to comply with AIS-048 for type approval" for "Marking as per AIS-037".

#### 16. Page 39/65, Appendix-B-2, Add following Sr. Nos. after existing Sr. No. 2

3.0		Front Reflective Tape (White)		
	Reflective	TAC No./ E-marking /		
	Tape	BIS License No.		
3.1	as per	Rear Reflective Tape		
	AIS-090	(Red)		
		TAC No./ E-marking /		
		BIS License No.		
4.0	Horn			
	(IS 1884)			
4.1		High Tone horn		
		TAC No./ E-marking /		
		BIS License No.		
4.2		Low Tone horn		
	_	TAC No./ E-marking /		
		BIS License No.		
5.0	Rear view	Interior mirror –		
	mirror	Fitted (Yes/No)		
6.0	Safety Glass	IS 2553 (Part 2) if fitted.		
(1		Front Windshield		
6.1		safety glass		

	TAC No./ E-marking / BIS License No.	
6.2	Side windows safety glass	
	TAC No./ E-marking / BIS License No.	
6.3	Rear safety glass	
	TAC No./ E-marking / BIS License No.	

#### 17. Page 51/65, Appendix-C-1, Rows of CMV Rule 124,

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev. 1) for type approval.)" for "AIS-038 (Rev.1) (for electric vehicles only)" in column 4 of row for Verification of protection against electric shock.

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)" for "AIS-038 (for electric vehicles only)" in column 4 of row for Washing Test.

# 18. Page 52/65, Appendix-C-2, last column of parameter verification of protection against electric shock.

Substitute "Clause 3.2 of AIS-038 or Clause no. 3.1 of AIS-038 (Rev. 1)" for "Clause No. 3.1 of AIS-038 (Rev. 1)".

#### 19. Page 52/65, Appendix-C-2, last column of parameter Washing Test.

Substitute "Clause 3.5.1 of AIS-038 or Clause No. 3.5.1 of AIS-038 (Rev. 1)" for "Clause No. 3.5.1 of AIS-038 (Rev. 1)".

# 20. Page 52/65, Appendix-C-2, Add following row after 5<sup>th</sup> row (CMV Rule, Parameter and Test results).

119	Horn installation test	
	(dB(A)) level test as per clause	
	6 of IS 15796.	

#### 21. Page 53/65, Appendix C-3, Row of CMV Rule 96, Parameter Brake Test.

Substitute "Booster ratio" for "magnification ratio" in last column.

Substitute "(IS 11852 / IS 15986 / AIS-151) - Type P / O test" for "(IS 11852) - Type P test" in sub row 1.

Substitute "Service Brake Test (as per Table 5.2 of AIS-017 (Part 6))" for "Service Brake (Clause 3.2.2.1)" in Column 2-Parameter, Sub Column 1

Substitute "Secondary Brake Test (as per Table 5.2 of AIS-017 (Part 6))" for "Secondary Brakes (Clause 4.1.2)" in Column 2-Parameter, Sub Column 1

#### 22. Page 54/65, Appendix-C-3, Rows of CMV Rule 124.

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)" for "AIS-038 (Rev.1) (for electric vehicles only)" in column 4 of row for Verification of protection against electric shock.

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)" for "AIS-038 (for electric vehicles only)" in column 4 of row for Washing Test.

#### 23. Page 56/65, Appendix C-4, Row of CMV Rule 96, Parameter Brake Test.

Substitute "Type P / O test" for "Type P test" in sub row 1.

Substitute "Service Brake Test (as per Table 5.2 of AIS-017 (Part 6))" for "Service Brake (Clause 3.2.2.1)" in Column 2-Parameter, Sub Column 1.

Substitute "Secondary Brake Test (as per Table 5.2 of AIS-017 (Part 6))" for "Secondary Brakes (Clause 4.1.2)" in Column 2-Parameter, Sub Column 1

#### 24. Page 57/65, Appendix-C-4, Rows of CMV Rule 124,

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)" for "AIS-038 (Rev.1) (for electric vehicles only)" in column 4 of row for Verification of protection against electric shock.

Substitute "AIS-038 (Rev. 1) (Applicable to all those vehicles which need to comply with AIS-038 (Rev.1) for type approval.)" for "AIS-038 (for electric vehicles only)" in column 4 of row for Washing Test.

#### 25. Page 60/65, Appendix D-1, Table - Column 3 of Sl. Nos. 1, 10 and 13

Substitute "AIS-008 / AIS-009" for "AIS-008 / AIS-009 as applicable" in Sl. No. 1

Substitute "IS 11852 /IS 15986/AIS-151/IS 14664" for "IS 11852/IS 14664" in Sl. No. 10

Substitute "IS 15627/IS 15633/IS 15636" for "IS 15627/IS 15633/IS 15636, as applicable" in Sl. No. 13

#### 26. Page 61/65, Appendix D-1, Sr. Nos. 21 and 22, third column Reference standard.

Substitute "AIS-038 / AIS-038 (Rev. 1)" for "AIS-038".

SI. 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)
2	Reflective tape	AIS-090	NA		NA		NA	
4	Horn	IS 15796						
		IS 1884 AIS-001				NA		
5	Rear View Mirror	AIS-002 (mounting arrangements)	NA	NA	NA	NA (Check whether mirror fitted)	NA	
7	Safety glass	IS 2553 (Part 2)	NA					

# 27. Page 60/65, Appendix D-1, Substitute following rows at Sl. Nos. below for existing rows at respective Sl. Nos.:

#### 28. Page 61/65, Appendix-D-1, Footnote

Substitute footnote "\*Applicable to all those vehicles which need to comply with respective standards mentioned in column-3 for type approval" for existing footnote "\*Only for electric vehicles" referred for Sl. No. 18, 21, 22 & 24.

### PRINTED BY THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA P.B. NO. 832, PUNE 411 004

#### ON BEHALF OF AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE

#### UNDER

#### CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE

#### SET-UP BY

#### MINISTRY OF ROAD TRANSPORT & HIGHWAYS

#### (DEPARTMENT OF ROAD TRANSPORT & HIGHWAYS)

#### GOVERNMENT OF INDIA

#### $14^{th}$ July 2021

### AUTOMOTIVE INDUSTRY STANDARD

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

PRINTED BY THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA P.B. NO. 832, PUNE 411 004

ON BEHALF OF AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE

UNDER CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE

> SET-UP BY MINISTRY OF ROAD TRANSPORT & HIGHWAYS (DEPARTMENT OF ROAD TRANSPORT & HIGHWAYS) GOVERNMENT OF INDIA

> > February 2020

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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 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 start from 1st April of the year.
- 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.

# 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.

SI. No.	WVSCoP Family name(s)	Base Model name(s)	Variant name(s)	No   Dato		Vehicle Category as per AIS-053/ IS 14272	Category premises as per produced AIS-053/ or		Type of powerEngine CapacitytrainCapacity(CI / SIin cc/Hybrid(for electric/FullICE)Electric)(For L1, L2, L5, E- rickshaw, E-cart, M1 vehicles and	GVW in Tonnes (for N, M2, M3 category vehicles)
								M1)	rived from	

**Table 1: Details of WVSCoP Families** 

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 & N1category derived from M1)

Categories	Range Pre-fixes
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 ≤ 3.5	N1	N1A
$3.5 < \text{GVW} \le 7.5$	N2	N2A
$7.5 < GVW \le 12.0$	N2	N2B
$12.0 < \text{GVW} \le 18.5^*$	N3 2 Axle Rigid	N3A
$18.5^* < \text{GVW} \le 28^*$	N3 Multi Axle Rigid	N3B
$28* < \text{GVW} \le 49.0*$	N3 Multi Axle Rigid	N3C
$30^* \le \text{GCW} \le 55.0$	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
$GVW \le 5.0$	M2	M2A
$5.0 < \text{GVW} \le 7.5$	M3 2 Axle Rigid	M3A
$7.5 < GVW \le 12.0$	M3 2 Axle Rigid	M3B
$12.0 < \text{GVW} \le 18.5^*$	M3 2 Axle Rigid	M3C
18.5* < GVW or GCW	M3 Multi Axle &	M3D
$18.5^{\circ} < 0^{\circ} \le 0$	Articulated	

\* 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.

Engine Capacity range, cc	<b>Range Pre-fixes</b>				
Engine Capacity ≤ 125	L2A for SI vehicles & L2B for CI vehicles				
$125 < \text{Engine Capacity} \le 350$	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				

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

- 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:

Categories	<b>Range Pre-fixes</b>
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.

SI. 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
			HLLD - Check for provision of fitment of device as approved in TA,	NA	NA	NA	NA	Y	Y	
1	Lighting & Light signaling devices	AIS-008 / AIS-009	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	NA	NA	NA	NA	Y	
3	Rear Marking plate (For Trucks Only)	AIS-089	Marking as per AIS-037	NA	NA	NA	NA	NA	Y (Trucks Only)	
4	Horn	IS 15796	dB(A) level test as per Clause 6 of	Y	Y	Y	NA	Y	Y	

#### **Table 5: WVSCoP Requirements**

### AIS-017(Part 6)

SI. 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
		IS 1884	IS 15796:2008 Marking as							
		AIS-001	per AIS-037 Marking as per AIS-037	Y	Y	Y	NA	Y	Y	
5	Rear View Mirror		Check for class of Mirrors & marking as per TA	Y	Y	Y	NA	Y	Y	
		AIS-002	Check for mirror mounting arrangements as per TA	NA	NA	NA	NA	NA	Y	
6	Windscreen wiping	IS 15802 / IS 15804 / AIS-045	Wiper blade & arm length Wiping frequency check	NA	Y (If fitted as per TA)	Y	NA	Y	Y	
7	Safety glass	IS 2553 (Part 2)	Marking as per AIS-037	NA	Y (if fitted as per TA)	Y	NA	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 (Rev.1) / AIS-103	Marking as per TA	NA	NA	NA	NA	NA	Y (only for trucks)	
10	Brake	IS 11852 / IS 14664, IS 14664 AIS-049 for electric vehicles	4 wheelers (M&N) & Quadricycles (L7): IS 11852 (Part 3) :2001 Clause 3.2.2.1 & 4.1.2 (laden) Two Wheelers (L1 & L2) and three wheelers (L5): Refer Table 5.1 below	Y	Y	Y	NA	Y	Y	
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

### AIS-017(Part 6)

SI. 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
12	Steering	IS 11948	Steering effort test as per Clause 5.2.4 of IS 11948:1999	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	
10	Seat ben	15 15 17 140	Fitment check	NA	NA	Y	NA	Y	Y	
17	CNG / LPG Vehicles	AIS 024 / AIS-025 / AIS-026 / AIS-027 / AIS-028	BIS Marking of gas cylinders, 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	Only for Electric vehicles
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	Y	
20	FUPD	AIS-069	Mounting as per approved layout	NA	NA	NA	NA	NA	Y, as applicable, if fitted	
21	Protection against electric shock	AIS-038	Clause 3.1 of AIS-038 :2015	Y	Y	Y	Y	Y	Y	Only for Electric vehicles
22	Washing Test	AIS-038	Clause 3.5.1 of AIS-038	Y	Y	Y	Y	Y	Y	Only for Electric vehicles
23	Measurement of Net Power and Maximum Speed	AIS-041 :2003	Clause 5.3 & 6.0 of AIS-041	NA	NA	NA	Y	NA	NA	Only for Electric vehicles 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 column 4 to 8 above.

S No.	Condition	Two Wheelers (L1, L2 category)	Three Wheelers (L5 category)
1	If type approval has been issued based on IS 14664- 1999	Tests shall be as per 8.1.1 with following criteria:1.Sl. No, (i), (ii), (iv) and (v) of Table 1 of IS14664:1999.Sl. No, (iii) and (vi) of Table 1 of IS 14664:1999 if it has been carried out for type approvalbased on clause 12.9 of IS 14664 : 1999.	<ul> <li>Tests as per 8.1.1 with following criteria:</li> <li>1. With two independent controls: <ul> <li>a) Sr. No. (i) &amp; (iii) of Table 2. of IS 14664:1999</li> <li>b) Sr. No. (ii) &amp; (iv) if it has been carried out for TA based on the clause 12.10. of IS 14664:1999</li> </ul> </li> <li>2. With one control acting on all three wheels: Sr. No. (v) of Table 2 of IS 14664:1999</li> </ul>
2	If type approval has been issued based on IS 14664- 2010	<ol> <li>For 3-1 category: Test shall be as per 5.3.3. of IS 14664:2010 Sl. No. (i), and (vi) of Table 1 of IS 14664:2010 in laden condition</li> <li>For 3-3 category: Test shall be as per 5.3.3. of IS 14664:2010 Sl. No. (iii) and (viii) of Table 1 of IS 14664:2010 in laden condition .</li> <li>If with CBS:         <ul> <li>With operating the control actuating both brakes tests shall be as per Table 1 of IS 14664:2010 in laden condition: a) Sr. No. (xi) of Table 1 of IS 14664:2010 for category 3-1</li> <li>Sr. No.(xii) of Table 1 of IS 14664:2010 for category 3-3,</li> <li>With operating the other control, 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> </ol>	<ol> <li>For 3-2 category: Test shall be as per 5.3.3 of IS 14664:2010         <ul> <li>a) If independent controls are provided then, Sr. No. (ii) &amp; (vii) of Table 1 of IS 14664:2010 in laden condition.</li> <li>b) If Single control is provided then Sr. No. (xi) of Table 1 in laden condition.</li> </ul> </li> <li>For 3-5 category: Test shall be as per 5.3.3 of IS 14664:2010 : Sl. No. (xiv) of Table 1 in laden condition;</li> </ol>

#### Table 5.1 Details of brake testing for two & three wheelers

#### 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 selected sample shall then be sealed and dispatched immediately by the manufacturer and/or importer in the presence of the test agency representative. Wherever immediate dispatch is not possible the vehicle shall be sealed in a closed container or in a closed room for later dispatch in the presence of the test agency representative.
- 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.

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

Table 6	Max-20	Sampling	Sequence
---------	--------	----------	----------

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 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-fitment 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 the 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.

1.0	Details of the Applicant:	
1.1	Name & address of the Applicant	
1.2	Telephone No	
1.3	Fax No.	
1.4	E-mail address	
1.5	Contact person	
2.0	Importer's Name and address	
3.0	Plant(s) of manufacture / import premises	
3.1	Name & address of vehicle manufacturing	
	plant(s) / import premises (attach annexure	
	if necessary)	
4.0	Period details	
4.1	Financial Years	
4.2	Tentative WVSCoP selection date	
4.3	1 <sup>st</sup> WVSCoP (or) Repeat WVSCoP	
5.0	Vehicle Family name	
5.1	Vehicle Base Models / Variants names	
5.2	Corresponding CMVR certificate No(s) and	
	date (including applicable extension	
	certificates)	
5.3	Category of vehicle as per AIS-053/	
	IS 14272	Attach separate annexure as per the
5.4	Engine capacity in cc (for L1, L2, L5, L7,	format given in Table 1.
	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)	
6.0	Plant wise Contact details (attach	
6.1	annexure if necessary)         WVSCoP coordinator at Plant(s) of	
0.1	selection	
6.2	Designation	
6.3	Telephone No	
6.4	Fax No.	
6.5	E-mail address	
7.0	Name & volume of Models and their	Attach details as per Table-7.1 below
/.0	variants in WVSCoP family	Auton ucians as per Table-7.1 below
8.0	Name of previous WVSCoP test agency, if	
0.0	any	
L	ung	

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

#### 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	Plant(s)	CMVR Certificat e No.	Certific ate date	Vehicle Category as per AIS-053 / IS	Tentative Prod Actual Prod WVSCoF Year1 (Y1) <sup>(2)</sup>	Period Year 2	Latest WVSCoP Certificate No.
		(V)				14272		(Y2) <sup>(2)</sup>	(If any)

Notes:

- 1. Fill up one table for each family
- 2. 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		Main beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.2		Dipped beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.3		Front Position / Parking lamp	
	]	TAC No./ E-marking / BIS License No.	
1.4		Front direction indicator lamp	
		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		Daytime Running lamp	
	_	TAC No./ E-marking / BIS License No.	
1.6		Front fog lamp	
		TAC No./ E-marking / BIS License No.	
1.7	Lighting & Light signaling devices AIS-008 / AIS-009	Front Retro Reflector	
		TAC No./ E-marking / BIS License No.	
1.8		Stop lamp	
	_	TAC No./ E-marking / BIS License No.	
1.9		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.10		Reversing lamp	
		TAC No./ E-marking / BIS License No.	
1.11		Rear Direction Indicator lamp	
		TAC No./ E-marking / BIS License No.	
1.12		Rear fog lamp	
	_	TAC No./ E-marking / BIS License No.	
1.13	_	Rear retro reflector TAC No./ E-marking / BIS License No.	
1.14		Rear Registration plate lamp	
		TAC No./ E-marking / BIS License No.	
1.15	Lighting & Light signaling	Side Direction Indicator Lamp	
	devices AIS-008 / AIS-009	TAC No./ E-marking / BIS License No.	
1.16		Side Reflex Reflector	
		TAC No./ E-marking / BIS License No.	
2.1		High Tone horn	
	Horn	TAC No./ E-marking / BIS License No.	
2.2	(IS 1884)	Low Tone horn	
		TAC No./ E-marking / BIS License No.	
3.1		Main mirror (Small) [ Class III ]	
	Rear view mirror (AIS- 001)	TAC No./ E-marking / BIS License No.	
3.2		Main Exterior mirror [ Class VII ] (if fitted)	

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		Interior Mirror (Class-I)	
		TAC No./ E-marking / BIS License No.	
4.1		Wiper blade length (Driver side)	
4.2	Windscreen wiping	Wiper blade length (Co-Driver side)	
4.3	system [AIS-045] for	Wiper arm length (Driver side)	
4.4	- Quadricycles	Wiper arm length (Co-Driver side)	
4.5		Wiping Frequency Check	
5.1		Front Windshield safety glass	
	_	TAC No./ E-marking / BIS License No.	
5.2		Side windows safety glass	
	_ Safety Glass [ IS 2553 (Part 2) ]	TAC No./ E-marking / BIS License No.	
5.3	-	Rear safety glass	
	_	TAC No./ E-marking / BIS License No.	
6.0	Passenger hand hold (AIS-	<b>046):</b> Whether fitted	
6.1	Pillion hand hold (IS: 1449	5): Whether fitted	
7.0	Spray suppression device (AIS-103)	Marking on the spray suppression device	
8.0		024, AIS-025 , AIS-026 , AIS-027 ,	
8.1		Gas cylinder	
		BIS marking	
8.2		CNG Pressure Regulator	
		TAC No./ E-marking / BIS License No.	
8.3		LPG Pressure regulator / vaporizer TAC No./ E-marking / BIS License	
	Tyres IS 15627/	No. BIS marking or marking as per AIS-037, as applicable Front Tyres	
9.0	IS 15633/ IS 15636	Rear Tyres	
		Spare Tyres	
10.0	Seat belt IS 15140	Marking as per AIS-037	
11.0	(for L7 category) Traction Batteries (AIS-048)	Fitment check Marking as per AIS-037	

# 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		Main beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.2		Dipped beam head lamp	
	_	TAC No./ E-marking / BIS License No.	
1.3		Front Position / Parking lamp	
	-	TAC No./ E-marking / BIS License No.	
1.4		Front direction indicator lamp	
		TAC No./ E-marking / BIS License No.	
1.5		Front Retro Reflector	
		TAC No./ E-marking / BIS License No.	
1.6		Stop lamp	
		TAC No./ E-marking / BIS License No.	
1.7		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.8		Reversing lamp	
	_	TAC No./ E-marking / BIS License No.	
1.9		<b>Rear Direction Indicator lamp</b>	
	_	TAC No./ E-marking / BIS License No.	
1.10		Rear retro reflector	
		TAC No./ E-marking / BIS License No.	
1.11		Rear Registration plate lamp	
		TAC No./ E-marking / BIS License No.	
1.12	Lighting & Light signaling	Side Direction Indicator Lamp	
	devices AIS-008 / AIS-009	TAC No./ E-marking / BIS License No.	
1.13		Side Reflex Reflector	
		TAC No./ E-marking / BIS License No.	
2.0	Traction Batteries (AIS-048)	Marking as per AIS-037	

# 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		Main beam head lamp	
	_	TAC No./ E-marking / BIS License No.	
1.2		Dipped beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.3		Front Position / Parking lamp	
		TAC No./ E-marking / BIS License No.	
1.4		Front direction indicator lamp	
		TAC No./ E-marking / BIS License No.	
1.5		Daytime Running lamp (If provided)	
	_	TAC No./ E-marking / BIS License No.	
1.6		Cornering lamp (If provided)	
		TAC No./ E-marking / BIS License No.	
1.7		Front fog lamp	
		TAC No./ E-marking / BIS License No.	
1.8	Lighting & Light signaling devices AIS-008	Front Retro Reflector	
		TAC No./ E-marking / BIS License No.	
1.9		Stop lamp	
		TAC No./ E-marking / BIS License No.	
1.10		<b>Rear Position / Parking lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.11		Reversing lamp	
		TAC No./ E-marking / BIS License No.	
1.12		<b>Rear Direction Indicator lamp</b>	
		TAC No./ E-marking / BIS License No.	
1.13		Rear fog lamp	
		TAC No./ E-marking / BIS License No.	
1.14		Rear retro reflector	
		TAC No./ E-marking / BIS License No.	
1.15		High mounted stop lamp	

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.	
1.16		Rear Registration plate lamp	
		TAC No./ E-marking / BIS License	
1.17	_	No. Front End outline marker lamps (If fitted)	
		TAC No./ E-marking / BIS License	
1.18	_	No. Rear End outline marker lamps (If fitted)	
	Lighting & Light signaling	TAC No./ E-marking / BIS License No.	
1.19	devices AIS-008	Side marker lamp	
	_	TAC No./ E-marking / BIS License No.	
1.20		Side Direction Indicator Lamp	
		TAC No./ E-marking / BIS License No.	
1.21		Side Reflex Reflector	
		TAC No./ E-marking / BIS License No.	
2.1		High Tone horn	
		TAC No./ E-marking / BIS License	
	Horn (IS 1884)	No.	
2.2		Low Tone horn TAC No./ E-marking / BIS License	
		No.	
3.1	Rear view mirror (AIS-001)	Interior mirror [ Class I]	
	((112 001))	TAC No./ E-marking / BIS License No.	
3.2		Main mirror (Small) [ Class III]	
		TAC No./ E-marking / BIS License No.	
4.1		Wiper blade length (Driver side)	
4.2		Wiper blade length (Co-Driver side)	
4.3	Windscreen wiping system [ IS: 15802,	Wiper arm length (Driver side)	
4.4	IS: 15804]	Wiper arm length (Co-Driver side)	
4.5		Wiping Frequency Check	
5.1		Front Windshield safety glass	
		TAC No./ E-marking / BIS License No.	
5.2	Safety Glass	Side windows safety glass	
	[ IS 2553(Part 2)]	TAC No./ E-marking / BIS License No.	
5.3	1	Rear safety glass	
		TAC No./ E-marking / BIS License	
6.0	Passenger hand hold (AIS	No.	

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
7.0	Spray suppression device (AIS-013)	Marking on the spray suppression device	
8.1		Gas cylinder	
		BIS marking	
8.2	CNG / LPG vehicles	CNG Pressure Regulator	
	(AIS-024, AIS-025, AIS-026, AIS-028)	TAC No./ E-marking / BIS License No.	
8.3		LPG Pressure regulator / vaporizer	
		TAC No./ E-marking / BIS License No.	
		BIS marking or marking as per AIS-037, as applicable	
9.0	Tyres IS 15633/	Front Tyres	
2.0	IS 15636	Rear Tyres	
		Spare Tyres	
10.0	Seat belt	Marking as per AIS-037 (M1 category)	
IS 15140	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		Main beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.2		Dipped beam head lamp	
		TAC No./ E-marking / BIS License No.	
1.3		Front Position / Parking lamp	
	_	TAC No./ E-marking / BIS License No.	
1.4		Front direction indicator lamp	
		TAC No./ E-marking / BIS License No.	
1.5		Daytime Running lamp (If provided)	
		TAC No./ E-marking / BIS License No.	
1.6		Cornering lamp (If provided)	
		TAC No./ E-marking / BIS License No.	
1.7		Front fog lamp	

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

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

Sr. No.	Ref. Standard	Parameter	Specifications as given in CMVR Type approval certificate of vehicle selected for WVSCoP
11.1		Gas cylinder	
		BIS marking	
11.2	CNG / LPG vehicles	CNG Pressure Regulator	
	(AIS-024, AIS-025, AIS-026 , AIS-028)	TAC No./ E-marking / BIS License No.	
11.3		LPG Pressure regulator / vaporizer	
		TAC No./ E-marking / BIS License No.	
		BIS marking or marking as per AIS-037, as applicable	
	Tyres IS 15636	Front Tyres	
12.0		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	Marking as per AIS-037 (M1 category)	
15.0	IS 15140	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.:					Date:	
1.0	OF THE VE	NAME AND ADDRESS OF THE VEHICLE MANUFACTURER AND/OR IMPORTER				
2.0	Letter Refere	ence:				
3.0	DETAILS O	F THE VEHICLE UN	DER	EVALUATION:		
	Category			Model Name		
	Engine No.			Chassis No.		
	GVW			Engine capacity		
	Manufacturin model	g plant & address of sel	ected			
	Latest CMVF No.	R Type Approval Certi	ficate			
		Approval Certificate Interest agency):	ssued			
4.0	OBJECTIVE	AND REQUIREMEN	NTS:			
	To evaluate AIS-017 (Part		SCoP	(Whole Vehicle Sa	fety Conformity of Pro	duction) as per
5.0	DATE OF E	VALUATION				
6.0	RESULTS O	F THE VERIFICATIO	ON O	F THE VEHICLE U	NDER WVSCOP APPR	OVAL:
6.1		ices, as applicable, of th der WVSCoP approval.	-	port for the test results	of static verifications and	dynamic tests of
Disclaimer (indicative):						
1. [N	ame of test	agency] issues Who	ole V	vehicle Safety Con	nformity of Productio	n Certificate"
(W	VVSCOPC) i	for vehicles based or	n the	documents produc	ced and /or testing car	
sel	lected sample	(s) as per provisions	s of s	pecific rules.		

- 2. [Name of test agency] issues **WVSCOPC** 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 **WVSCOPC**.
- 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 **WVSCOPC**. These results cannot be disclosed unless specifically so ordered by Government, Court, etc.
- 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:									
,	WVSCoF	P Family Name	:							
	Sr. No.	Base Model (s)	Variant(s)	Plant(s) / Premises produced or imported	CMVR TA Certificate No	Certifica . date	ate			
	I	PREPARED I	BY:	CHI	ECKED BY	Z:	<b>APPROVED BY:</b>			
	Na	me and Desig	nation	Name a	and Designa	ition	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]

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	Marking as per AIS-03 devices (Excluding Bu		ory lighting & Sig	gnaling
2.1	devices AIS-008/ AIS-009	Main beam head lamp TAC No./ E-marking			
2.2	_	/ BIS License No. Dipped beam head lamp			
	-	TAC No./ E-marking / BIS License No. Front Position /			
2.3	-	Parking lamp TAC No./ E-marking / BIS License No.			
2.4	-	Front direction indicator lamp TAC No./ E-marking			
2.5	-	/ BIS License No. Daytime Running lamp			
	-	TAC No./ E-marking / BIS License No.			
2.6	-	Front fog lamp TAC No./ E-marking / BIS License No.			
2.7	Lighting & Light signaling devices AIS-008 / AIS-009	Front Retro Reflector			
2.8		TAC No./ E-marking / BIS License No. Stop lamp			
2.0		TAC No./ E-marking / BIS License No.			
2.9		Rear Position / Parking lamp			

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.			
2.10		Reversing lamp			
2.10	-	TAC No./ E-marking /			
		BIS License No.			
2.11		Rear Direction			
	_	Indicator lamp TAC No./ E-marking /			
		BIS License No.			
2.12		Rear fog lamp			
	-	TAC No./ E-marking /			
	=	BIS License No.			
2.13		Rear retro reflector			
	-	TAC No./ E-marking /			
		BIS License No.			
2.14	Lighting &	<b>Rear Registration</b>			
	Light signaling	plate lamp			
	devices AIS- 008 / AIS-009	TAC No./ E-marking / BIS License No.			
	0087 AIS-009	Side Direction			
2.15		Indicator Lamp			
		TAC No./ E-marking			
		/ BIS License No.			
2.16		Side Reflex			
		<b>Reflector</b> TAC No./ E-marking			
		/ BIS License No.			
3.0	Horn (IS 1884)				
3.1		High Tone horn			
		TAC No./ E-marking / BIS License No.			
3.2		Low Tone horn			
		TAC No./ E-marking / BIS License No.			
4.0	Rear view mirro	r (AIS- 001)			
4.1		Main mirror (Small) [ Class III ]			
		TAC No./ E-marking / BIS License No.			
4.2		Main Exterior mirror [ Class VII ] (if fitted)			
		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
4.3	-	Interior Mirror (Class-I) (If fitted) TAC No./ E-marking			
		/ BIS License No.			
5.0	Windscreen wi	ping system [AIS-045 ]	for Quadricycle	S	
5.1	_	Wiper blade length (Driver side)			
5.2		Wiper blade length (Co-Driver side)			
5.3	_	Wiper arm length (Driver side)			
5.4		Wiper arm length (Co-Driver side)			
5.5		Wiping Frequency Check			
6.0	Safety Glass [ I	S 2553 (Part 2) ] as app	olicable		
6.1		Front Windshield safety glass			
6.2		TAC No./ E-marking / BIS License No. Side windows safety glass			
		TAC No./ E-marking / BIS License No.			
6.3		Rear safety glass			
		TAC No./ E-marking / BIS License No.			
7.0	Whether fitted	l hold (AIS-046):			
7.1	Pillion hand hoWhether fitted	10 (18: 14495):			
8.0	Spray suppression device (AIS-103)	Marking on the spray suppression device			
9.0	CNG / LPG veh	icles (AIS-024, AIS-025	, AIS-026, AIS-02	27, AIS-028)	
9.1		Gas cylinder			
		BIS marking			
9.2		CNG Pressure Regulator			
		TAC No./ E-marking / BIS License No.			
9.3		LPG Pressure regulator / vaporizer			
		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
	Tyres IS 15627/ IS 15633/ IS 15636	BIS marking or marking as per AIS-037, as applicable			
10		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			

## 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]

Sr. No.	Ref. Standard	Parameter	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
1	Lighting &	Marking as per AIS-0.			gnaling
	Light signaling devices	devices (Excluding Bu	llbs)		
1.1	AIS- 008 /	Main beam head lamp			
	AIS-009	TAC No./ E-marking			
		/ BIS License No.			
1.2		Dipped beam head			
1.2		lamp			
		TAC No./ E-marking			
	_	/ BIS License No.			
1.3		Front Position /			
1.5	-	Parking lamp			
		TAC No./ E-marking			
	-	/ BIS License No.			
1.4		Front direction			
	-	indicator lamp			
		TAC No./ E-marking			
	-	/ BIS License No.			
1.5		Front Retro			
	-	Reflector			
		TAC No./ E-marking / BIS License No.			
1.6	-	Stop lamp			
1.0	-	TAC No./ E-marking			
		/ BIS License No.			
1.7		<b>Rear Position</b> /			
1.,	-	Parking lamp			
		TAC No./ E-marking /			
1.0		BIS License No.			
1.8	-	Reversing lamp			
		TAC No./ E-marking /			
		BIS License No.			
1.9		Rear Direction Indicator lamp			
	-	TAC No./ E-marking /			
		BIS License No.			
1.10	]	Rear retro reflector			
		TAC No./ E-marking / BIS License No.			
		Rear Registration			
1.11		plate lamp			

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. Side Direction			
1.12		<b>Indicator Lamp</b>			
		TAC No./ E-marking / BIS License No.			
1.13		Side Reflex Reflector			
		TAC No./ E-marking / BIS License No.			
2	Traction Batteries (AIS-048)	Marking as per AIS-037			

### 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]

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	Marking as per AIS-0 devices (Excluding Bu		ory lighting & Sig	gnaling
2.1	devices AIS-008	Main beam head lamp TAC No./ E- marking / BIS License No.			
2.2	-	Dipped beam head lamp TAC No./ E- marking / BIS License No.			
2.3		Front Position / Parking lamp TAC No./ E- marking / BIS License No.			
2.4	-	Front direction indicator lamp TAC No./ E- marking / BIS License No.			
2.5		Daytime Running lamp (If provided) TAC No./ E- marking / BIS License No.			
2.6		Cornering lamp (If provided) TAC No./ E- marking / BIS License No.			
2.7		Front fog lamp 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	Front Retro Reflector			
	devices	TAC No./			
	AIS-008	E-marking / BIS			
	7 HD-000	License No.			
2.9	_	Stop lamp			
2.9	_	<u> </u>			
		TAC No./			
		E-marking / BIS License No.			
2.10	-	Rear Position /			
2.10		Parking lamp			
		TAC No./ E-marking /			
		BIS License No.			
2.11		<b>Reversing lamp</b>			
	_	TAC No./ E-marking / BIS License No.			
2.12	1	Rear Direction			
2.12		Indicator lamp			
		TAC No./ E-marking /			
	_	BIS License No.			
2.13	_	Rear fog lamp			
		TAC No./ E-marking / BIS License No.			
2.14		Rear retro reflector			
		TAC No./ E-marking / BIS License No.			
2.15		High mounted stop			
2.13		lamp			
		TAC No./ E-			
		marking / BIS			
		License No.			
2.16		<b>Rear Registration</b>			
2.10	_	plate lamp			
		TAC No./			
	Lighting &	E-marking / BIS			
	Light signaling	License No.			
	devices	Front End outline			
2.17	AIS-008	marker lamps (If fitted)			
	1	TAC No./			
		E-marking / BIS			
		License No.			
		Rear End outline			
2.18		marker lamps			
		(If fitted)			
		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		Side marker lamp			
		TAC No./			
		E-marking / BIS			
		License No.			
2.20		Side Direction			
2.20		Indicator Lamp			
		TAC No./			
		E-marking / BIS			
		License No.			
2.21		Side Reflex			
2.21		Reflector			
		TAC No./			
		E-marking / BIS			
	TT	License No.			
3.0	Horn (IS 1884)				
3.1		High Tone horn			
		TAC No./ E-marking			
		/ BIS License No.			
3.2		Low Tone horn			
	_	TAC No./ E-marking / BIS License No.			
	Rear view	Interior mirror			
4.1	mirror	[ Class I ]			
	(AIS-001)	TAC No./			
		E-marking / BIS			
		License No.			
1.0	-	Main mirror			
4.2		(Small) [ Class III ]			
		TAC No./ E-			
		marking / BIS			
		License No.			
5.0	Windscreen wi	ping system [ IS: 1580	2, IS: 15804 ]		
5 1		Wiper blade length			
5.1		(Driver side)			
5.2		Wiper blade length			
3.2		(Co-Driver side)			
5.3		Wiper arm length			
5.5	_	(Driver side)			
5.4		Wiper arm length			
~ · ·		(Co-Driver side)			
5.5		Wiping Frequency Check			
6.0	Safety Glass [ I	S 2553(Part 2) ]	-		
6.1		Front Windshield			
0.1		safety glass			

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.			
6.2		Side windows			
0.2		safety glass			
		TAC No./			
		E-marking / BIS			
		License No.			
6.3		Rear safety glass			
		TAC No./ E-			
		marking / BIS			
		License No.			
7.0	Passenger handWhether fitted	l hold (AIS-046):			
	Spray	Marking on the			
8.0	suppression	spray suppression			
0.0	device	device			
	(AIS-013)				
9.0	CNG / LPG vel	hicles (AIS-024, AIS-0	25, AIS-026, AIS	-028)	
9.1		Gas cylinder			
		BIS marking			
0.2		CNG Pressure			
9.2		Regulator			
		TAC No./ E-			
		marking / BIS			
		License No.			
		LPG Pressure			
9.3		regulator /			
		vaporizer			
		TAC No./ E-			
		marking / BIS			
		License No.			
		BIS marking or marking as per AIS-			
	Tyres	037, as applicable			
10	IS 15633/ IS 15636	Front Tyres			
	15 15050	Rear Tyres			
		Spare Tyres			
	Seat belt	Marking as per AIS-037			
11	IS 15140	(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]

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			
2	Lighting & Light signaling	approved in TA Marking as per AIS-0 devices (Excluding Bu		ory lighting & Si	gnaling
2.1	devices AIS-008	Main beam head lamp			
		TAC No./ E-marking / BIS License No.			
2.2		Dipped beam head lamp			
		TAC No./ E- marking / BIS License No.			
2.3	_	Front Position / Parking lamp			
		TAC No./ E- marking / BIS License No.			
2.4	-	Front direction indicator lamp			
		TAC No./ E- marking / BIS License No.			
2.5		Daytime Running lamp (If provided)			
		TAC No./ E-marking / BIS License No.			
2.6	_	Cornering lamp (If provided) TAC No./			
		E-marking / BIS License No.			
2.7	_	Front fog lamp			
		TAC No./ E-marking / BIS License No.			
2.8	Lighting & Light signaling	Front Retro Reflector			

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		Stop lamp			
-		TAC No./ E-marking / BIS License No.			
2.10	7	Rear Position /			
	_	Parking lamp TAC No./ E-marking / BIS License No.			
2.11		Reversing lamp			
	_	TAC No./ E-marking / BIS License No.			
2.12		Rear Direction Indicator lamp			
		TAC No./ E-marking / BIS License No.			
2.13	_	Rear fog lamp			
		TAC No./ E-marking / BIS License No.			
2.14		Rear retro reflector			
		TAC No./ E-marking / BIS License No.			
2.15		High mounted stop lamp			
		TAC No./ E-marking / BIS License No.			
2.16		Rear Registration			
2.10	Lighting & Light signaling	plate lamp TAC No./ E- marking / BIS License No.			
2.17	devices AIS-008	Front End outline marker lamps			
		TAC No./ E-marking / BIS License No.			
2 1 9		Rear End outline			
2.18		marker lamps			
		TAC No./ E-marking / BIS License No.			
2.19		Side marker lamp			
		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		Side Direction			
		Indicator Lamp TAC No./			
		E-marking / BIS			
		License No.			
0.01		Side Reflex			
2.21		Reflector			
		TAC No./ E-marking / BIS License No.			
2.0		Front Reflective			
3.0		Tape (White)			
		TAC No./ E-marking			
		/ BIS License No.			
3.1	Reflective	Rear Reflective			
	Tape	Tape (Red)			
	as per AIS-090	TAC No./ E-marking / BIS License No.			
	-	Side Reflective Tape			
3.2		(Amber)			
	-	TAC No./ E-marking			
		/ BIS License No.			
3.3	Rear marking plate plate as per AIS-089	Fitment : Yes/No/Not Applicable			
4.0	Horn (IS 1884)				
4.1		High Tone horn			
		TAC No./ E-marking / BIS License No.			
4.2		Low Tone horn			
		TAC No./ E-marking / BIS License No.			
5.0	Rear view mirror (AIS-001)	Interior mirror [Class I] TAC No./ E-marking / BIS License No.			
5.1	]	Main mirror (Large) [ Class II ]			
		TAC No./ E-marking / BIS License No.			
5.2		Main mirror			
		(Small) [ Class III ]			

Sr. No.	Ref. Standard	Parameter TAC No./ E-marking / BIS License No.	Observations on the vehicle selected for WVSCoP	Whether conforms to AIS-007 details (Y/N)	Remarks
5.3	-	Wide angle mirror [ Class IV] TAC No./			
	_	E-marking / BIS License No. Close proximity			
5.4	_	mirror [ Class V ] TAC No./ E-marking / BIS			
5.5	_	License No. Front mirror			
5.5	_	[ Class VI ] TAC No./ E-marking / BIS License No.			
6.0	mirrors as per t	ion of the Rear view ype approval			
7.0	(AIS-002) Windscreen wi	ping system [ IS: 1580	2. IS: 158041		
		Wiper blade length			
7.1		(Driver side)			
7.2		Wiper blade length (Co-Driver side)			
7.3	_	Wiper arm length (Driver side) Wiper arm length			
7.4 7.5		(Co-Driver side) Wiping Frequency			
		Check			
8.0	Safety Glass [ I	S 2553 (Part 2) ]	T	1	1
8.1		Front Windshield safety glass			
		TAC No./ E-marking / BIS License No.			
8.2		Side windows safety glass 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
8.3		Rear safety glass			
		TAC No./ E-marking / BIS License No.			
9.0	Passenger handWhether fitted	i hold (AIS-046):			
10.0	Spray suppression device(AIS-013)	Marking on the spray suppression device			
11.0	CNG / LPG ve	hicles (AIS-024 , AIS-	-025 , AIS-026, AI	(S-028)	
11.1		Gas cylinder			
		BIS marking			
11.2		CNG Pressure Regulator			
		TAC No./ E-marking / BIS License No.			
11.3		LPG Pressure regulator / vaporizer			
		TAC No./ E-marking / BIS License No.			
	Tyres	BIS marking or marking as per AIS-037, as applicable			
12	1 yies	Front Tyres			
	IS 15636	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

Report	NO. :						,		
Fuel :		Gasoline / Die / LPG / E		ŕ					
Details vehicle WVSCo family	оP	(Details as per shall be provid particular WV family)	ded for the						
Test Sit	e :								
CMV Rule No.	PAR	AMETER		I		TES	T RESULT	`S	
96		Brake Test		) - Type P te 7 category			nnected		<u>Service Brake</u> - Make : <b>M/s.</b> Type :
	A.Dyna Test Service Brake (Clause 3.2.2.1)	E Laden Unladen	Initial Speed	Control force (kg)	Stopp: distan (m) Observed	nce	MFDD (m/s <sup>2</sup> ) Observed L		Front Brake -Drum / Disc Make of Liners / Pads -M/s. Material -Asbestos / Non Asbestos Dimension, mm – x x Effective Diameter of Drum/Disc - mn Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm <u>Rear Brake</u> -Drum / Disc Make of Liners / Pads -M/s. Material -Asbestos / Non Asbestos Dimension, mm – x x Effective Diameter of Drum/Disc - mn Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm <u>Parking</u> Make - M/s. Type - Spring brake Effective area - cm <sup>2</sup> Dimension, mm - x x Size - mm <u>Booster (Power Assistance)</u> Make - M/s. Size - mm Magnification Ratio - <u>Engine</u> Make - M/s. Model - Type - Max. Power - kW@ rpm <u>Gear Box</u> - Make model speed & type Drive Axle Ratio – Wheel Base - mm Tyres -All are Brake Circuit Drawing No. Max. Speed of Vehicle - km/h Test conducted for WVCOP compliance
	ary Brakes (Clause 4.1.2)	Luden							

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

Report CMV Rule No.	PARAMETER		PARAMETER TEST RESULTS						
96				<i>IS:14664) - Ту</i> & L5 category		Service Brake- Make : M/s. Type :			
	A.Dynamic Test	))	Initial Speed	Control force (kg)	Stopping distance (m) Obser ved	MFDD (m/s <sup>2</sup> ) Observed Limits	Front Brake -Drum / Dise 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 <u>Rear Brake</u> -Drum / Disc Make of Liners / Pads -M/s. Material -Asbestos / Non Asbestos Dimension, mm – x x Effective Diameter of Drum/Disc - mm		
	Front Brake	Laden					Effective area - <b>cm</b> <sup>2</sup> Wheel Cylinder diameter - <b>mm</b>		
		Unladen					Engine Make - M/s, Model - Type - Max. Power - kW@ rpm Gear Box - Make model speed & type Primary Transmission Ratio - Secondary Transmission Ratio - Wheel Base - mm Tyres -All are Brake Circuit Drawing No. Max. Speed of Vehicle - km/h Test conducted for WVCOP compliance		
	Rear Brakes	Laden Unladen							
98(3)	Steering El (IS:11948)	fort Test		20	China and China	Max. Limit(kg)	Tyre -All are Steering Gear Box Make -M/s. Type - Ratio - Steering Wheel outer dia mm		
	Steering Effort, kg	LH turn		Power stance /		15	Wheelbase - mm Test conducted for WVCOP compliance		
	211010, 115	RH turn	Mec	hanical eering		15	as per AIS-017 Part 6:2020 (Table 5,)		
		LH turn	with	Power nce Failure		30			
		RH turn				30			

CMV Rule No.	PARAMETER			TES	ST RESULTS	
120	Noise level         measurement         Pass-by Noise Level         (IS : 3028)         In XXXXXXX Gear	Eng	ine Speed rpm	XX dB(A) @ XX.X km/h	Limit as per CMVR XX dB(A)	Tyre -All are         Drive Axle Ratio –         Gear Box-Make model speed & type         Tested Gear Ratio -         3rd Gear Ratio –         4th Gear Ratio –         4th Gear Ratio –         4th Gear Ratio –         Make -M/s.         Model -         Type -         Displacement -         cm3         Max. Power -         M@ rpm         Intake System         Drawing No         Air Filter Assembly         Make -M/s.         Type-         ID / Part No         Exhaust System Details         Drawing No         Catalytic converter provided-Yes / No         Silencer / Pre-Silencer / Post-Silencer         Make -M/s.         Type -         ID / Part No         Wake -M/s.         Type -         ID / Part No         Wheel base-         Make -M/s.
119	Horn installation test [(dB(A) level test as p	er				Test conducted for WVCOP compliance as per AIS 017 Part 6 (2020) (Table 5)
124	clause 6 of IS 15796] Verification of protect against electric shock	ion				Clause no. 3.1 of AIS-038 (Rev. 1) (only for Electric vehicles)
124	Washing Test					Clause no. 3.5.1 of AIS-038(Rev. 1)) (for electric vehicles only)
	Weight measurement (IS : 11825)					
	Unladen		Specified	1 M	leasured	-
	FAW, kg					-
	RAW, kg					
	Total Unladen Weigh	t, kg				]
	Laden FAW, kg		Specified	Specified Measured		-
	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 :		Elect	ric				
Details of vehicle WVSCoP family		(Details as per Table 1 shall be provided for the particular WVSCoP family)					
Test Sit	e :						
CMV Rule No.	PARAMETER				TEST RESULT	ſS	
124	Verification of protection against electric shock						Clause no. 3.1 of AIS-038 (Rev. 1)
124	Washing Test						Clause no. 3.5.1 of AIS-038 (Rev. 1)
124	Measurement of Net power & maximum speed			Motor power = Max. speed =			AIS-041
	Weigl (IS : 11	ht measureme 825)	ent		0)		
		Unladen		Specified	Measured		
		FAW, kg					
		RAW, kg					
	То	otal Unladen We	eight, kg				
	Laden			Specified	Measured		
		FAW, kg					
		RAW, kg					
	Gr	oss Vehicle We					
		Initiated b	у	Verifi	ied by		Authorized by
Date							

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

Report	No. :								
Fuel :		Gasoline / D							
Details vehicle family	of (I sh th	CNG / LPG/I Details as per hall be provid te particular /VSCoP fami	Table 1 ed for						
Test Sit	e:								
CMV Rule No.	PARA	METER		1		TES	ST RESU	JLTS	
96		Brake Test	(IS:11852	?)- Type P te	st - Engin	e Discon	nected		Service Brake- Make : M/s.
	A.Dynam Test		Initial Speed		Stopping distance (m)		MFDD (m/s <sup>2</sup> )		Type : <u>Front Brake</u> -Drum / Disc 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
	Service Laden				Observed	Limits	Observed	Limits	Rear Brake-Drum / Disc         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         Parking         Make - M/s.
	Brake ( <i>Clause</i> 3.2.2.1)	Laden							Type - <b>Spring brake</b> Effective area - <b>cm</b> <sup>2</sup> Dimension, mm - <b>x x</b> Size - <b>mm</b>
	5.2.2.1)	Unladen							Booster (Power Assistance)         Make - M/s.         Size - mm         Magnification Ratio -         Engine         Make - M/s.         Model -         Type -         Max. Power - kW@ rpm         Gear Box - Make model speed & type         Drive Axle Ratio -         Wheel Base - mm         Tyres -All are         Brake Circuit Drawing No.         Max. Speed of Vehicle - km/h         Test conducted for WVCOP compliance
	Second-ar Brakes (Clause 4.1.2)	y Laden							
98(3)	Steering Effort Test (IS:11948)		- C -			Ma Limit		Tyre -All are Steering Gear Box Make -M/s. Type - Ratio -	
	Steering Effort, kg			/ith Power .ssistance /			1	5	Steering Wheel outer dia <b>mm</b> Wheelbase - <b>mm</b>
		RH turn	N	Iechanical Steering			1:	5	Test conducted for WVCOP compliance as per AIS 017 Part 6: 2020 (Table 5)
		LH turn		vith Power stance Failu	ure		3	0	
		RH turn					3	0	

Noise level measurement Pass-by Noise Level (IS : 3028)			Limit as per CMVR	<ul> <li><u>Tyre</u>-All are Drive Axle Ratio –</li> <li><u>Gear Box</u>-Make model speed &amp; type Tested Gear Ratio - 3rd Gear Ratio -</li> <li><u>Bregine</u> Make -M/s. Model - Type - Displacement - cm3</li> </ul>		
In XXXXXXX Gear	Engine Speed rpm	XX dB(A) @ XX.X km/h	XX dB(A)	Max. Power - kW @ rpm Intake System Drawing No Air Filter Assembly Make -M/s. Type- ID / Part No Exhaust System Details Drawing No Catalytic converter provided-Yes / No Silencer / Pre-Silencer / Post-Silencer Make -M/s. Type - ID / Part No Wheel base- mm Test conducted for WVCOP compliance as per AIS 017 Part 6 :2020 (Table 5)		
(dB(A) level test as per						
Verification of protection against electric shock				Clause no. 3.1 of AIS-03 (Rev. 1) (only for Electrivehicles)		
Washing Test				(Clause no. 3.5.1 of AIS-038) (for electric vehicles only)		
Weight measurement (IS : 11825)						
Unladen	Specifie	d M	leasured			
FAW, kg						
RAW, kg						
Total Unladen Weight, kg				]		
Laden	Specifie	d M	leasured	]		
FAW, kg						
RAW, kg				1		
Gross Vehicle Weight, kg						
SLF , as applicable						
ECU make and country of origin / plant address						
ECU Calibration ID:						
-Vehicle speeds for						
which SLD/SLF						
	In XXXXXXX GearIn XXXXXXX GearHorn installation test (dB(A) level test as per clause 6 of IS 15796)Verification of protection against electric shockWashing TestWashing TestWeight measurement (IS : 11825)Verification of protection against electric shockWashing TestSLF , as applicableECU make and country of origin / plant address ECU Calibration ID: -Vehicle speeds for	In XXXXXXX GearEngine SpeedIn XXXXXXXX GearFengine SpeedrpmIn XXXXXXX GearrpmIn XXXXXXX GearImage: speedrpmrpmImage: speedrpmImage: speedImage: speed<	In XXXXXXX GearEngine SpeedXX dB(A) rpmHorn installation test (dB(A) level test as per clause 6 of IS 15796)@XX.X km/hHorn installation test (dB(A) level test as per clause 6 of IS 15796)	In XXXXXXX GearEngine SpeedXX dB(A)XX dB(A) dB(A)In XXXXXXX GearEngine SpeedXX dB(A)XX dB(A)rpm@ XX.X km/h@ XX.X km/hImage: Constraint of the second		

	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 / Di / LPG/E							
Details of vehicle (Details as per Table 1 family shall be provided for the particular WVSCoP family)									
Test Sit	te :								
CMV Rule No.	PAR	AMETER				TES	T RESU	LTS	
96		Brake Test	(IS:11852)	- Type P te	est - Engi	ne Disco	nnected		<u>Service Brake</u> - Make : <b>M/s.</b> Type :
	A.Dyna Test	amic	Initial Speed	Control force (kg)	Stopping distance (m)		MFI (m/s		Front Brake -Drum / Disc Make of Liners / Pads -M/s. Material -Asbestos / Non Asbestos Dimension, mm - x x Effective Diameter of Drum/Disc - mm
		$(\bigcirc)$			Observed	Limits	Observed	Limits	Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm <u>Rear Brake</u> -Drum / Disc Make of Liners / Pads -M/s. Material - Asbestos / Non Asbestos Dimension, mm - x x Effective Diameter of Drum/Disc -
	Brake	Unladen							mm Effective area - cm <sup>2</sup> Wheel Cylinder diameter - mm <u>Parking</u> Make - M/s. Type - Spring brake Effective area - cm <sup>2</sup> Dimension, mm - x x
									Size - mm Engine Make - M/s. Model - Type - Max. Power - kW@ rpm Gear Box - Make model speed & typ Drive Axle Ratio - Wheel Base - mm Tyres -All are Brake Circuit Drawing No Max. Speed of Vehicle - km/h Test conducted for WVCOP compliance
	Second ary Brakes (Clause 4.1.2)	Luden							
98(3)		Steering Effort Test (1S:11948)		10			Ma Limi		Tyre -All are Steering Gear Box Make -M/s. Type - Ratio - Steering Wheel outer dia mm
	Steerin Effort,	kg	As	ith Power sistance /		-	1		Wheelbase - mm Test conducted for WVCOP compliance as per AIS-017 Part 6 :
		RH turn		echanical Steering			1:		2020 (Table 5)
		LH turn	Assis	th Power tance Fail	ure		3		
		RH turn					3	U	

Report No. : CMV Rule	PARAMETER			TEST RESU	LTS
No. 120					Tyre -All are
120	Noise level measurement Pass-by Noise Level (IS : 3028)			Limit as per CMVR	Drive Axle Ratio – <u>Gear Box</u> -Make model speed & type Tested Gear Ratio – 4th Gear Ratio – 5th Gear Ratio – <u>Engine</u> Make - <b>M</b> / <b>s</b> . Model - Type -
	In XXXXXXX Gear	Engine Speed rpm	XX dB(A) @ XX.X km/h	XX dB(A)	Displacement - cm3 Max. Power - kW @ rpm Intake System 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-Silence</u> Make -M/s. Type - ID / Part No Wheel base- mm Test conducted for WVCOP compliance as per AIS-017 Part 6 :
119	Horn installation test (dB(A) level test as per clause 6 of IS 15796:2008)			I	2020 (Table 5)
124	Verification of protection against electric shock			Clause no. 3.1 of AIS-038 (Rev. 1) (only for Electric vehicles)	
124	Washing Test				Clause no. 3.5.1 of AIS-038 (Rev. 1)) (for electric vehicles only)
	Weight measurement (IS : 11825)		0		
	Unladen	Specifie	Specified Measured		-
	FAW, kg				-
	RAW, kg				
	Total Unladen Weight, kg	0	1		_
	Laden	Specifie		leasured	
	FAW, kg				4
	Gross Vehicle Weight, kg				-
117	SL, as applicable		erify lock speed AIS-018:2001	l as per clause	
	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

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) "xxxxxxxx", manufactured by xxxxxxxxx <<Organization name>>and randomly selected from xxxxxxxxxx <<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
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	AIS-017 (Part 6):2020

2. 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.

WVS0 Fami		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"

3 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.

SI. 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 as applicable						
2	Reflective tape	AIS-090	NA	NA	NA	NA	NA	
3	Rear Marking plate (For Trucks Only)	AIS-089	NA	NA	NA	NA	NA	
4	Horn	IS 15796 IS 1884				NA		
		AIS-001				NA		
5	Rear View Mirror	AIS-002 (mounting arrangements)	NA	NA	NA	NA	NA	
6	Windscreen wiping	IS 15802/ IS 15804/ AIS-045	NA			NA		
7	Safety glass	IS 2553 (Part 2)	NA			NA		
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 14664				NA		
11	Pass by Noise	IS 3028				NA		
12	Steering	IS 11948	NA			NA		
13	Tyres	IS 15627 / IS 15633 / IS 15636, as applicable				NA		

SI. 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)
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*				NA		
22	Washing Test	AIS-038*				NA		
24	Measurement of Net power & maximum speed	AIS-041*	NA	NA	NA		NA	NA

\* - Only for electric vehicles

### ANNEX E (See Introduction) COMPOSITION OF AISC PANEL

	Name	Organization
1.	Mr. S. Ravishankar (Convener)	Ashok Leyland Ltd. (SIAM)
2.	Mr. A. A. Badusha (Co-convener)	ARAI
	Members	Representing
3.	Mr. A. V. Mannikar	ARAI
4.	Mr. A. A. Deshpande	ARAI
5.	Mr. U. A. Kulkarni	ARAI
6.	Mr. P. D. Betgeri	ARAI
7.	Mr. B. V. Shamsundara	ARAI
8.	Mr. Abhijit B. Mulay	ARAI
9.	Mr. Manoj Desai	ARAI
10.	Dr. Abhijeet Marathe	ARAI
11.	Mr. Vishwas A. Khedekar	ARAI
11.	Mr. S. H. Nikam	ARAI
12.	Mr. V. P. Rawal	ARAI
<u>    14.</u> 15.	Mr. Samir Sattigeri Mr. S. N. Dhole	CIRT CIRT
<u> </u>	Mr. M. M. Pathak	CIRT
10.	Mr. S. Hasan Ali	CIRT
18.	Mr. M. K. Chaudhari	CIRT
19.	Mr. Tagad Nilesh	CIRT
20.	Ms. Shubhangi Dalvi	CIRT
21.	Ms. Vijayata Ahuja	iCAT
22.	Mr. Sharma	iCAT
23.	Mr. P. K. Banerjee	SIAM
24.	Mr. M. Ravi	SIAM (Ashok Leyland Ltd.)
25.	Mr. D. Balakrishnan	SIAM (Ashok Leyland Ltd.)
<u>26.</u> 27.	Mr. N. Muthukumar Ms. Suchismita Chatterjee	SIAM (Ashok Leyland Ltd.) SIAM (Ashok Leyland Ltd.)
27.	Mr. Arvind V. Kumbhar	SIAM (Ashok Leyland Ltd.) SIAM (Bajaj Auto Ltd.)
28.	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 Kodolikar	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 (Isuzu Motors Indid) SIAM (Hero Moto. Corp. Ltd.)
49.	Mr. S. Muthu Kumar	SIAM (Horda Cars R&D India Ltd.)
50.	Representative from	SIAM (Honda Cars Red) India Etd.)
51.	Mr. Karan Rajput	SIAM (Hydnoar) SIAM (Honda Motorcycle and Scooter
51.	Wii. Karan Kajput	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 (Saguar Eand Rover India Etd.)
50.	Mr. S. V. Kulkarni	SIAM (Mahindra & Mahindra Ltd.)
57.	Mr. Sanjay Babhulkar	SIAM (Mahindra & Mahindra Ltd.)
50.	Mr. Shailesh Kulkarni	SIAM (Mahindra & Mahindra Ltd.)
<u> </u>	Mr. V. G. Kulkarni	SIAM (Mahindra & Mahindra Ltd.) SIAM (Mahindra & Mahindra LtdTruck &
00.		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 Ce Mahindra Etd.)
65.	Mr. Alok Jaitely	SIAM (Manuti Suzuki India Ltd.)
<u> </u>	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.)
<u> </u>	Mr. Nikhil Desai	SIAM (Marcedes Benz India Pvt. Ltd.)
70.	Mr. Rajendra Khile	SIAM (Mercedes Benz India I vt. Etd.) SIAM (Renault Nissan India Pvt. Ltd.)
70.	Mr. Vimal Ananthan T	SIAM (Renault Nissan India Pvt. Ltd.)
71.		SIAM (Renault Vissali India I vi. Etd.)
72.	Mr. Karuppasamy Mr. Babian Fernando G	
		SIAM (Scania CV India Pvt. Ltd.)
74.	Mr. Vinay Bijalwan	SIAM (Skoda Auto India Pvt. Ltd.)
75.	Mr. Sachin Joshi Mr. Shridhar Basagoudar	SIAM (Skoda Auto India) SIAM (Skoda Auto India)
76.	Mr. Shridhar Basagoudar	
77.	Mr. Shrikant R. Tapase	SIAM (Skoda Auto India)
78.	Mr. Deepak Vashista Mr. Sachin Bhat	SIAM (SML Isuzu Ltd.)
79.		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.)
<u>89.</u>	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

Chairperson	
Mrs. Rashmi Urdhwareshe	Director
	The Automotive Research Association of India, Pune
Members	Representing
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)