

**4 Wheeler Passenger Vehicle (M1 Category) (BOV)**

**CMVR- Vehicle Related Tests**

Sr.No	Tests	CMV Rule No.	Reference Standard
<b>VEHICLE EVALUATION LAB TESTS</b>			
1	Photographs	---	ARAI Procedure
2	CMVR physical verification	93 to 125	CMVR, 1989
3	Vehicle weighment	95	IS : 11825
4	Vehicle dimension measurment	---	ARAI Procedure
5	Coast down test	115	ARAI Procedure
6	Brake test	96(4)	IS : 11852
7	ABS	96(4)	IS : 11852
8	Turning circle diameter test	98(2)	IS : 12222
9	Steering effort test	98(3)	IS : 11948
10	Speedometer calibration test	117(1)(2)	IS:11827
11	Pass by noise test	120(2)	IS : 3028
12	Gradeability test	124(23)	AIS - 003
13	Ground clearance		IS 9435
14	External projection test	124(11)	AIS 120
15	Tell tale symbols test	124(19)	AIS-071
16	Hood latch test	124(17)	IS : 14226
17	Wheel guards test	124(13)	IS : 13943
18	Vehicle identification number including month and year of manufacture.	122(1)	AIS:065
19	Temporary use spare wheel / tyre and Run Flat Tyre (if different from normal tyre )	95 (7)	AIS 110

### SAFETY AND HOMOLOGATION LAB TESTS

20	Accelerator control system	124(15)	IS : 14283
21	Horn installation	119(1)	IS:15796-2008
22	Rear view mirror installation	125(2)	AIS:002
23	Installation requirements for lighting & signaling devices	124(20)	AIS:008 (Rev.01)
24	Windscreen Wiping system	101(1) & (2)	IS: 15804
25	Driver's field of vision	124(34)	AIS:021
26	Requirment of Demisting system	124(46)	AIS 084 PART I
27	Requirment of Deforsting system	124(46)	AIS 084 PART I
28	Wheel Nut & hub cap	124/14	IS 13941
29	Anti-theft devices ( Mechanical/ Retro-mechanical devices)		AIS-075

### PASSIVE SAFETY LAB TESTS

30	Interior Fittings test	124(38)	IS:15223
31	Side Door Impact test	124(6)	IS:12009
32	Steering Impact test (GVW < 1500 kg)	124(5)	IS:11939
33	Child restraint system	125 (7)	AIS:072
34	Bumper fitment	124/1	IS:15901
35	Requirements for behavior of steering mechanism vehicle in Head-on Collision	124(5)(b)	AIS 096
36	Frontal crash Test (Protection of occupants Offset Frontal Collision )	124(5)(c)	AIS 098
37	Side Impact crash test (Protection of Occupants in event of Lateral Collision)	124(6)(b)	AIS 099
38	Protection of Pedastrian Safety & Upper,lower Leg Impact Test	124(5)(c)	AIS 100
39	Additional Safety Features – Airbags	G.S.R. 1014 (E)	AIS 145

**AUTOMOTIVE ELECTRONICS DEPARTMENT TESTS**

40	Electromagnetic compatibility of motor vehicle	124 (21) (ii)	AIS :004 (Part 3)
41	Vehicle Alarm Systems and Immobilizers		AIS-076
42	Traction batteries used in vehicles	124 (49)	AIS:048 (Rev 1)
43	Measurement of Electric Energy test	124 (1) 27	AIS : 039 (Rev 1)
44	Constructional ,Functional Safety test & Electrical Shock Test above 48V DC	124(1)26 (a)	AIS : 038 (Rev 1)
45	Measurement of Max power and 30 min power	124 (1) 29	AIS:041
46	Range test	124 (1) 28	AIS:040 (Rev 1)
<b>NEW REGULATIONS</b>			
<b>2018-2019</b>			
47	Rear view mirror specification and installation requirements	G.S.R. 1033 (E)	AIS-002 (Part 1) (Rev. 1)
48	ABS (Anti-lock braking)	G.S.R. 830 (E)	
49	Additional Safety Features – (Various features)	G.S.R. 1014 (E)	
50	Protection of Pedastrian Safety & Upper,lower Leg Impact Test	124(5)(c)	AIS 100
51	Protection of Pedastrian Safety & Upper,lower Leg Impact Test	124(5)(c)	AIS 100

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