



INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

(A division of National Automotive Board (NAB) - MHI, Govt. of India)

Ready Reckoner - L5 Category CMVR TYPE APPROVAL

Definition	Category L5M means a three wheeler passenger carrier on account of its technical features intended to carry passenger		Dimensions	Length (meters)	Width (meters)	Height (meters)
	Category L5N means a three wheeler goods carrier on account of its technical features intended to carry goods			4.00	1.60	2.50
Fuel	Petrol/CNG/Electric		Weight	GVW < 1.5T		
AIS 007 Tables	Brief Tech Specs	T7 & T11 -Petrol/CNG/Electric	Detail Tech Specs	T1C - Petrol/CNG		
		T13 - Electric		T1A - Electric		
Sr. no.	Title of Test		CMV Rule No.	Reference Standard	Remarks	Lab
Vehicle Level Tests						
1	Definitions-Category of Vehicle		2(i)	IS 14272-2011	-	
2	Overall Dimensions		93(1)(A), (1)(B),(2)	CMV Rule	-	VEL
3	Condition of Tyres		94(1), (2) & (3)	CMV Rule	-	VEL
4	Selection and Fitment of Tyre		95(2), (3), (4), (5) & (6)	AIS-050-2004	-	VEL
5	Brake test		96(1), (2), (3), (4)(ia), (7)(b) & (8)	IS:14664-2010	-	VEL
6	Turning circle Diameter test & Steering effort test		98 (1), (2) & (3)	IS:12222-2011 A & IS:11948-2010	If steering wheel is fitted	VEL
7	Forward & Backward Motion		99	CMV Rule	-	VEL
8	Safety glass		100 (1),(2), (3) & (4)	CMV Rule	if fitted	VEL
9	Wiper blade		101 (1), (2)(ii)	IS:15802-2008	If safety glass is fitted	VEL
10	Signaling Device, Direction indicators and Stop Light		102(1),(2)	CMV Rule	-	VEL
11	Position of Indicator		103(1), (2)	CMV Rule	-	VEL
12	Fitment of Reflectors & Reflective Tapes		104(1)(v) & (4)	AIS-057 (Rev.1): 2010 AIS: 090-2005	-	VEL
13	Lamps		105 (1)(b), (3), (4), (5) & (7)	CMV Rule	-	VEL
14	Deflection of Light		106 (1)	CMV Rule	-	VEL
15	Use of Red & White Light		108 (1)	CMV Rule	-	VEL
16	Parking Lights		109	CMV Rule	-	VEL
17	Lamps on 3- wheelers		110	AIS 134- 2016	-	VEL
18	Prohibition of spotlights etc.		111	CMV Rule	-	VEL
19	Exhaust Gases and Exhaust Pipes		114 (1) & (2)	-	for Petrol/CNG/LPG only	VEL

20	Mass emission (Type I, II & III) (w/o PN)	115 (1), (2)(i) & (20)	AIS-137(P2):2019	for Petrol/CNG/LPG only	VTL
21	Evaporative emission (Type IV)	115 (20)	AIS-137(P2):2019	for Petrol only	VTL
22	Full throttle performance (FTP)	115 (20)	AIS-137(P2):2019	-	ETL
23	Speedometer Calibration	117 (1) & (2)	IS:11827-2008	-	VEL
24	Horn Installation	119 (2)	IS:15796-2008	-	VEL
25	Pass by Noise Measurement	120 (1) & (2)	IS:3028-1998	-	VEL
26	VIN verification	122 (1) & (2)	AIS-065-2005	-	VEL
27	External projection	124 (1)(11)	IS:13942-1994	-	VEL
28	Tell tale symbols	124 (1)(18)	AIS-071: 2009 (Part 1 & Part 2)	-	VEL
29	Electromagnetic compatibility (EMC)	124 (1)(21)(ii)	AIS-004 (Part 3)-2009	-	EMC
30	Gradeability	124 (1)(23)	AIS-003-1999	-	VEL
31	Installation requirements for lighting & signaling devices	124 (1)(24)(a)	AIS-009 (Rev. 1)-2011	-	VEL
32	Specific Requirements of L category Electric Powertrain Vehicles	124 (1)(26)(a)	AIS 156: 2020	For Electric only	EEL
33	Measurement of electrical energy consumption	124 (1)(27)	AIS-039 (Rev. 1)-2015	For Electric only	VTL
34	Method of measuring the range	124 (1)(28)	AIS-040 (Rev. 1)-2015	For Electric only	VTL
35	Measurement of net power and maximum 30 minute power	124 (1)(29)	AIS-041 (Rev. 1)-2015	For Electric only	VTL
36	Type Approval of electric powertrain vehicles	124 (1)(30)	AIS-049 (Rev. 1)-2016	For Electric only	EEL
37	Windscreen wiping system	124 (1)(39)	AIS-045-2004	If safety glass is fitted	PSL
38	Requirements of handhold	124 (1)(42)	AIS-046-2005	-	VEL
39	Protective Device against Unauthorised Use	124 (1)(44)	AIS 074-2005	-	CTL
40	Rear view mirror installation	125 (2)(a/b)	AIS-002 (Part 2)(Rev. 1)-2011	-	VEL
41	Safety Provisions for occupant of three wheeled vehicles	125 (11)	AIS 134: 2016	-	VEL
Component Level Tests					
1	Tyres	95 (1)	IS:15627-2005	-	VEL
2	Safety glass	100 (1)	IS:2553 (Part 2)(Rev. 1)-2019 Amd 3	if fitted	CTL

3	Wiper blade	101 (1)	IS:15802-2008 & AIS-045-2004	If safety glass is fitted	CTL
4	Reflex reflector	104 (4)	AIS-057 (Rev. 1)-2010	-	PHL
5	Horn	119 (1)	IS:1884-1993	-	CTL
6	Automobile lamps (bulbs)	124 (1)(1)(b) & (c)	AIS-034 (Part 1) (Rev. 1)-2010	-	PHL
7	Brake hose	124 (1)(2)	IS:7079-2008	If fitted	CTL
8	Brake fluid	124 (1)(3)	IS:8654-1986	If fitted	CTL
9	Lighting & light signalling devices (Main beam & dipped beam)	124 (1)(32)(i)(a)	AIS-010 (Part 1)(Rev. 1)-2010 / AIS-010 (Part 2)(Rev. 1)-2010	-	PHL
10	Lighting & light signalling devices (Front position lamps, rear position lamps, stop lamps, direction indicator lamps, rear	124 (1)(32)(i)(b)	AIS-010 (Part 3)(Rev. 1)-2010 Amd 1	-	PHL
11	Lighting & light signalling devices (Front fog lamps)	124 (1)(32)(i)(c)	AIS-012 (Part 1)(Rev. 1)-2011 Amd 1	-	PHL
12	Lighting & light signalling devices (Rear fog lamps)	124 (1)(32)(i)(d)	AIS-012 (Part 2)(Rev. 1)-2011 Amd 1	-	PHL
13	Lighting & light signalling devices (Reversing Lamps)	124 (1)(32)(i)(e)	AIS-012 (Part 6)(Rev. 1)-2011 Amd 1	-	PHL
14	Lighting & light signalling devices (Daytime running lamps)	124 (1)(32)(i)(f)	AIS-012 (Part 10)(Rev. 1)-2011 Amd 1	-	PHL
15	Wheel rims (Alloy / sheet metal / spoke)	124 (1)(43)(b/c/d)	IS:16192 (Part 1)-2014 / IS:16192 (Part 2)-2014 / IS:16192 (Part 3)-2018	-	CTL
16	Protective devices against unauthorized use	124 (1)(44)	AIS-074-2005	-	CTL
17	Rear view mirror	125 (2)(a/b)	AIS-001 (Part 2) (Rev. 1)-2011	-	CTL
18	Traction batteries	124 (1)(49)	AIS-156 (Part 2):2020	For Electric only	EEL