

**4 Wheler Vehicle Battery Operated Vehicle (BOV) N1 Category**

**CMVR Type Approval - Vehicle level Tests**

Sr.No	Tests	CMV Rule No.	Reference Standard
1	Photographs	---	ARAI Procedure
2	CMVR physical verification	93 to 125	CMVR, 1989
3	Vehicle weighment	95	IS : 11825
4	Coast down test	115	ARAI Procedure
5	Brake test	96(4)	IS : 11852
6	ABS (If Provided)	96(4)	IS : 11852
6	Turning circle diameter test	98(2)	IS : 12222
7	Steering effort test	98(3)	IS : 11948
8	Speedometer calibration	117(1)(2)	IS : 11827
9	Pass by noise test	120(2)	IS : 3028
10	External projection test	124(11)	IS : 13942
13	Tell-Tales and Indicators	124(18)	AIS : 071(Part-1,2)
14	Gradeability test	124(23)	AIS - 003
15	Accelerator control system	124(15)	IS : 14283
16	Horn installation	119(1)	AIS:014
17	Rear view mirror installation	125(2)	AIS:002
18	Installation requirements for lighting & signaling devices	124(20)	AIS:008 (Rev.1)
20	Vertical orientation for dipped beam - head lamp	124(1)(20)	AIS:008 (Rev.1)
21	Interior Fittings	124(38)	AIS : 047
22	Survival Space	124 (1) (35)	AIS:029
23	Hand hold	124 (1) (42)	AIS 046
25	Electromagnetic radiation from motor vehicle	124 (21) (i)	AIS :004 (Part 1)
26	Electromagnetic compatibility of motor vehicle	124 (21) (ii)	AIS :004 (Part 3)
27	Vehicle dimension measurement	---	ARAI Procedure
28	Traction batteries used in battery operated vehicles	124 (49)	AIS : 048
29	Embossment of Chassis Number, Engine Number & Month of Manufacture & manufacturer plate (Vehicle identification number including month and year of manufacture.)	122 (1)	AIS:065
30	Temporary Cabin fitted on drive away chassis	124 (1) (35)	AIS:070
31	Fitment of Reflective tape	104(1)	AIS:090
32	Definitions (Classification of the Vehicle) – N1	2 (p)	IS 14272
33	Max Speed		IS:11877
34	Windscreen wiping system	101(2)	AIS:011
35	Temporary use spare wheel / tyre and Run Flat Tyre (if different from normal tyre )	95 (7)	AIS 110
36	Minimum Space Requirement for Front Passenger Seat (Transitory Provision)	125 (6)	AIS:023:2005
37	Functional and Safety tests	124(1)26 (a)	AIS:038
38	Measurement of Electric Energy test	124 (1) 27	AIS:039
39	Range test	124 (1) 28	AIS:040
40	Measurement of Max power and 30 min power	124 (1) 29	AIS:041
41	Reverse Parking alert system	125 (10)	AIS:145

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### Safety component tests

Sr. No.	Tests	CMV Rule No.	Reference Standard
1	Size and Ply rating of tyres	95 (1)	IS:15627& AIS : 037
2	<b>Safety glass</b>	100(2)	IS : 2553 & AIS : 037
2(i)	Windscreen laminated safety glass	100(2)	IS : 2553 & AIS : 037
2(ii)	Side window / door glass	100(2)	IS : 2553 & AIS : 037
2(iii)	Back light / rear toughened glass	100(2)	IS : 2553 & AIS : 037
3	Windscreen wiping system	101(2) (3)	AIS : 011
4	Wiper Blade	101(2) (3)	AIS : 011
5	Reflector	104(4)	AIS : 057 & AIS : 037
6	Horn	119(1)	IS : 1884 & AIS : 037
7	Automotive lamps (bulbs)	124(1)	AIS:034 & AIS : 037
8	Hydraulic brake hose	124(2)	IS : 7079 & AIS : 037
9	Hydraulic brake fluid	124(3)	IS : 8654
10	Wheel rims	124(8)	IS : 9436 & AIS : 037
11	Rear View Mirror Specifications(Exterior)	125(2)	AIS:001 & AIS : 037
12	Wheel nuts , wheel discs & hub caps	124(14)	IS : 13941
13	Door locks & door retention	124(16)	IS : 14225 & AIS : 037
14	Performance requirements for Lighting & Signalling devices	124 (20)	AIS : 012 & AIS : 037
	Head lamp assembly (Glass lense)/(Plastic lense)	124 (20)	AIS : 012 & AIS : 037
	Front Parking lamp assembly	124 (20)	AIS : 012 & AIS : 037
	Front / Rear Direction Indicator lamp assembly	124 (20)	AIS : 012 & AIS : 037
	Rear Registration Plate Lamp Assembly	124 (20)	AIS : 012 & AIS : 037
	Rear Combination Lamp Assembly (with Stop/Tail, Direction Indicator lamps, Number plate lamp)	124 (20)	AIS : 012 & AIS : 037
15	Safety Belt, Seats & their anchorages, Head Restraints	125 (6)	AIS:023
16	Warning Triangles	138 (4) (C)	AIS:022 & AIS : 037

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