National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NATIONAL CENTRE FOR AUTOMOTIVE TESTING (NCAT), VEHICLES RESEARCH AND DEVELOPMENT ESTABLISHMENT (VRDE), MINISTRY OF DEFENCE, DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION, VAHANNAGAR P.O., AHMEDNAGAR, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Shelter Shielding Effectiveness measurement For shelter	IEEE 299
2	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Wheeled/ Tracked Vehicles & System/ sub system ESD test (Electro Static discharge)	a)ISO 10605 b)IEC 61000-4-2 c)MIL STD 1686 d) MIL STD 461G
3	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Wheeled/ Tracked Vehicles & System/ sub system Radiated EMI Off-Board emissions tests	a) AIS 004 Part 1, AIS 004 Part 3 b)CISPR 12 c)ISO 13766/ IEC 60034-1 d) ECE R10.05 e) MIL STD 461 E, MIL STD 461-F, MIL STD 461 G e)EEC 2015/208/EU
4	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Wheeled/ Tracked Vehicles & System/ sub system Conducted Emissions test on subsystem	a) CE 101 b) CE 102
5	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Wheeled/ Tracked Vehicles & System/ sub system Radiated Immunity (Susceptibility) Off-Board Immunity tests	a)AIS 004 Part 3 b) MIL STD 461 E, MIL STD F, MIL STD 461G c)MIL STD 461 F, MIL STD 461 G d)ISO 11451-2 , ISO 11452-2 e) ECE R 10.05 f) EEC 2015/208/EU, ISO 13766
6	ELECTRONICS- EMC TEST FACILITY	Vehicle and its Components	Wheeled/ Tracked Vehicles & System/ sub system 1) Conducted Susceptibility measurement 2) Integrated lightning Induced Transducer	1) MIL STD 461 E/F/G a) CS 114 b) CS 101 c) CS 106 d) CS 109 e) CS 115 f) CS 116 2) DO 160G CS117
7	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Arrangement of foot controls 4W	AIS-035
8	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Automotive vehicles-Spray Suppression system (Part III)-Fitment requirement 4W	AIS:013
9	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Brakes and braking system compliance 2W/3W	IS:14664
10	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Brakes and braking system compliance 4W	IS:11852 (Part 1 to 8)
11	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Damp Heat Test a) Hot Test b) RH	a) IS: 9000 Part V b) IS 10250

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12	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Determination of Road-Load constants by Coast Down Test 2W/3W/4W	IS:14785
13	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Dimension of road vehicles 4W	IS:9435
14	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Dimensions of two wheeled motor vehicles 2W	IS:11432
15	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Electronic Items/ Gen set application/Container a) Low temp. test b) High Temp. Test c) Damp Heat Test	a) JSS 55555-2000 b) JSS 55555-2000 c) JSS 55555-2000
16	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Engineering Items a) Dry Heat Test b) Cold Test	a) IS: 9000 Part III(1983) b) IS: 9000 Part II(1983)
17	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Evaluation of odometer 2W/3W/4W	IS:11850
18	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Evaluation of requirement for vehicles fitted with Anti-Lock Braking System	(i) IS:11852(Part 9)-2003(other than M1) (ii) IS:15986-2015 (For M1)
19	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Evaluation of speedometer 2W/3W/4W	IS:11827
20	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Horn installation requirement 2W/3W/4W	IS:15796
21	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of TCD & Maneuverability Requirement 4W	IS:12222
22	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of Acceleration 2W	IS:10407
23	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of acceleration 4W	IS:11851
24	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of Fuel consumption (2 Wheeler)	IS:10881

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25	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of fuel consumption 2W/3W/4W	IS:11921
26	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of interior noise 4W	IS:12832
27	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of maximum speed- 2 Wheeler	IS:10278
28	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of maximum speed 4W	IS:11877
29	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of Noise emitted by moving vehicles 2W/3W/4W	IS:3028
30	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of Noise emitted by stationery vehicles	IS:10399
31	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of starting gradeability 2W/3W/4W	AIS-003
32	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Measurement of steering effort 2W/3W/4W	IS:11948
33	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Method of weighment	IS:11825
34	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Product: a) Measurement of Idling CO & HC b) Tail pipe emission for Petrol, CNG & LPG vehicles c) Gaseous & particulate emission for diesel vehicles d) Smoke density (FAS) measurement e) Crankcase emission for petrol vehicles	MoRTH/ CMVR/ TAP-115/116
35	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Warning Triangle a)Cold Test b) Hot Test	AIS: 022
36	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle and its Components	Windscreen wiping system a) Cold Test b) Hot Test	IS 15804-2008 (EU) No.1008/2010 IS 15802-2008 b) IS 15802-2008

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37	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Advance Warning Triangle Luminance Factor, Coefficient of Luminous Intensity	AIS-022, ECE R27
38	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Cornering Lamp a) Luminous Intensity Distribution b) Colour Co-ordinates	a) AIS-012 (Part 3)(Rev 1) :2011 b) AIS-010(Part 5)(Rev 1)
39	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Day time Running lamp a) Luminous Intensity Distribution b) Colour Co-ordinates	a) AIS-012 (Part 10)(Rev 1)-2011 b) AIS-010(Part 5)(Rev 1)
40	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Direction Indicator Lamp a) Luminous Intensity Distribution. b) Colour Co-ordinates	a) AIS -012(Part-5)(Rev 1):2011, AIS-062:2005, AIS (Rev 1: 2012), AIS-010(Part 3)(Rev 1: 2010) ECE R6, ECE R50 b) AIS –010(Part 5)(Rev 1)
41	PHOTOMETRY-LUMINARIES	Vehicle and its Components	End outline Marker Lamp a) Luminous Intensity Distribution. b) Colour Co-ordinates	a) AIS-062. AIS-012(Part 6)(Rev 1):2011 b) AIS-010(Part 5)(Rev 1)
42	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Fog Lamp a) Luminous Intensity Distribution. b) Colour Co-ordinates	a) AIS-012(Part 1&2) (Rev 1):2011 ECE R38 b) AIS-010(Part 5)(Rev 1)
43	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Front and Rear Position (side) Lamps, Stop Lamp a) Luminous Intensity Distribution b) Colour Co-ordinates.	a) AIS-062:2005, AIS 062 (Rev1 : 2012) AIS-012(Part 6)(Rev 1):2011, ECE R7, ECE R50 b) AIS-010(Part 3&5)(Rev 1)
44	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Head Lamp a)Luminous Intensity Distribution b)Colour Co-ordinates	a) AIS-062:2005, AIS 062 (Rev1: 2012), AIS-010 (Part1,2) Rev1:2010 ECE R1, ECE R5, ECE R8, ECE R20, ECE R31, ECE R56, ECE R57, ECE R72, ECE R76, ECE R82, b) AIS-010 (Part 5) (Rev 1)
45	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Parking Lamp a) Luminous Intensity Distribution. b) Colour Co-ordinates	a) AIS-062:2005, AIS 062 (Rev1: 2012), AIS-012(Part 8) (Rev 1):2011, ECE R77 b) AIS-010(Part 5)(Rev 1)
46	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Rear marking plates Coeff. of Retro Reflection	AIS-089:2005, AIS 089 (Rev1)
47	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Reflex Reflector Coefficient of Luminous Intensity	AIS-057(Rev 1), ECE R3
48	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Retro Reflecting Sheets and Tapes Coefficient of Luminous Intensity	IS: 14221, AIS-090 :2005, AIS-090 (Rev1)

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49	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Reversing lamp a) Luminous Intensity Distribution. b) Colour Co-ordinates	a) AIS-062:2005, AIS 062 (Rev1 :2012), AIS-010 (Part 3) (Rev 1):2010. AIS-012(Part 7)(Rev 1):2011, ECE R23 b) AIS-010(Part 5)(Rev 1)
50	PHOTOMETRY-LUMINARIES	Vehicle and its Components	Side marker lamp a)Luminous Intensity Distribution b)Colour Co-ordinates	a)AIS-012 (Part 9)(Rev 1):2011 b) AIS-010(Part 5)(Rev 1)