National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	PAINT, MATERIAL ENGINEERING AND EXHAUST EMISSION TEST LABORATORY, TATA MOTORS LIMITED, PLOT NO. 1, SECTOR 11, SIDCUL, PANTNAGAR, UDHAM SINGH NAGAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6269	**Page No**	1 of 4
Validity	21/09/2022 to 20/09/2024	**Last Amended on**	01/12/2022

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	CHEMICAL- ATMOSPHERIC POLLUTION	04 Wheeler vehicle test (powered by gasoline engine) below 3500 GVW	Evaporative emissions for gasoline vehicle a) Leak Test b) Vent test c) Purge Test	Morth\CMVR\ TAP-115/116 ,126 Chapter XI Issue VI :2010, AIS-137, Part (3),Issue-4
2	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicle test (Powered by gasoline Engine)below 3500GVW	Type III Crank case emissions (Gasoline vehicle only)	Morth\CMVR\TAP-115|116 Chapter X Issue IV, AIS-137, Part (3),Issue-4
3	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel and gasoline engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers (Tail Pipe emissions) Methane (CH4)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04
4	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel and gasoline engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers (Tail Pipe emissions) Nitrogen Oxide (NOx)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04
5	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel and gasoline engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers (Tail Pipe emissions) Carbon Dioxide (CO2)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04
6	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel and gasoline engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers(Tail Pipe emissions) Carbon Monooxide (CO)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04
7	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel and gasoline engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers(Tail Pipe emissions) Hydro Carbon (HC)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04
8	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers (Tail Pipe emissions) Particulate Matter (PM)	Morth/CMVR/TAP/115-116,126 Issue-4 Chapter 03 GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E) GSR 889(E), AIS-137, Part (3),Issue 04

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9	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel engine) below 3500 GVW	Type-I Test Emission Test of vehicles at chassis dynamometer using exhaust gas analysers (Tail Pipe emissions) Particulate Number (PN)	Morth/CMVR/TAP/115-116 Issue-4 Part XIV GSR 493(E) GSR 77(E) GSR 286(E) GSR 686(E) GSR 84(E) GSR 498(E), AIS-137, Part (3),Issue 04
10	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered gasoline engine) below 3500 GVW	Type-II Test Idle CO	MoRTH/CMVR/TAP-115/116,126 GSR 400(E), GSR 111(E) GSR 276(E) GSR 277(E) GSR 103(E) GSR 176(E)GSR 498(E),GSR 889(E),GSR 881 (E) , AIS-137, Part (3),ISSUE-4 Chapter IX
11	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by diesel engine) below 3500 GVW	Type-II Test Free Acceleration Smoke Opacity	MoRTH/CMVR/TAP-115/116 ISSUE-4 PART XIV Chapter IX GSR 400(E), GSR 111(E) GSR 276(E) GSR 277(E) GSR 103(E) GSR 176(E) MoRTH/CMVR/TAP-115/116 ISSUE NO. 4 PART IV Chapter IV GSR 498(E), AIS-137, Part (3),Issue-4
12	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered by gasoline engine) below 3500 GVW	Type -II Test Lambda	MoRTH/CMVR/TAP-115/116 ISSUE-4 PART XIV Chapter IX GSR 400(E), GSR 111(E) GSR 276(E) GSR 277(E) GSR 103(E) GSR 176(E) MoRTH/CMVR/TAP-115/116 ISSUE NO. 4 PART IV Chapter IV GSR 498(E), AIS-137, Part (3),Issue-4
13	CHEMICAL- ATMOSPHERIC POLLUTION	04 wheeler vehicles test (powered gasoline engine) below 3500 GVW	Type-II Test Idle HC	MoRTH/CMVR/TAP-115/116 ISSUE-4 PART XIV Chapter IX GSR 400(E), GSR 111(E) GSR 276(E) GSR 277(E) GSR 103(E) GSR 176(E) MoRTH/CMVR/TAP-115/116 ISSUE NO. 4 PART IV Chapter IV GSR 498(E), AIS-137, Part (3), ISSUE-4
14	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints Sealants	Consistency	IS 101 (Part 1/Sec 5) : By B-4 type Flow Cup
15	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints Sealants	Cross Cut Adhesion	ASTM D 3359
16	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Dry Film Thickness	IS 101 (Part 3/Sec 2)

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Certificate Number TC-6269 **Page No** 3 of 4

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17	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Non Volatile Matter	IS 101 (Part2/Sec 2)
18	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Pencil Hardness	ISO 15184
19	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Resistance to Acid	IS 2932 (Part 1)
20	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Resistance to Alkali	IS 2932 (Part 1)
21	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Resistance to Humidity	IS 101 (Part 6/Sec 1)
22	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Scratch hardness	IS 101 (Part 5/Sec 2)
23	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Specific gravity	IS 101 (Part 1/Sec 7)
24	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Specular Gloss (at 20°)	ASTM D 523-14 By Gloss Meter
25	CHEMICAL- PAINTS & SURFACE COATING	CED Paints, Acrylic base Paints, Polyester paints, Sealants	Viscosity By Brookfield Viscometer	JASO M-323-77
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Brinell Hardness	IS 1500 (PART1)
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Brinell Hardness	IS 1500 (PART1)
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Brinell Hardness	IS 1500 (PART1)
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Micro Vickers Hardness	IS 1501 (PART1)
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell Hardness	IS 1586 (PART1)
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell Hardness	IS 1586 (PART1)
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell Hardness	IS 1586 (PART1)

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Certificate Number TC-6269 **Page No** 4 of 4

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33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell Hardness	IS 1586 (PART1)
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Vickers Hardness	IS 1501 (PART1)
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Vickers Hardness	IS 1501 (PART1)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Vickers Hardness	IS 1501 (PART1)
37	MECHANICAL-METALLOGRAPHY TEST	Ferrous alloys	Microstructure analysis 100x	ASTM 9 HANDBOOK
38	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Effective case depth	IS6416