SCOPE OF ACCREDITATION

Laboratory Name :	MATERIALS ENGINEERING LAB, TATA MOTORS LTD, CHINHAT INDUSTRIAL AREA, DEVA ROAD, LUCKNOW, UTTAR PRADESH, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5317
Page No	1 of 6
Validity	31/03/2022 to 30/03/2024
Last Amended on	30/05/2023

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- CORROSION TESTS	Anodized Products / Panels / Raw Materials	Salt Spray Test	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Salt Spray Test	ASTM B117
3	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels / Raw Materials	Salt Spray Test	ASTM B117
4	CHEMICAL- CORROSION TESTS	Inorganic & Organic coated produc/ material	Salt Spray Test	ASTM B117
5	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Salt Spray Test	ASTM B117
6	CHEMICAL- CORROSION TESTS	Painted Products / Panels / Raw Materials	Salt Spray Test	ASTM B117
7	CHEMICAL- CORROSION TESTS	Plated Products / Panels / Raw Materials	Salt Spray Test	ASTM B 117
8	CHEMICAL- CORROSION TESTS	Weld Parts	Salt Spray Test	ASTM B 117
9	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Co	ASTM E1251-17a
10	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Cr	ASTM E1251-17a
11	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Cu	ASTM E1251-17a
12	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Fe	ASTM E1251-17a
13	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Mg	ASTM E1251-17a
14	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Mn	ASTM E1251-17a
15	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Ni	ASTM E1251-17a
16	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Pb	ASTM E1251-17a
17	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Sb	ASTM E1251-17a
18	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Si	ASTM E1251-17a

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5317	**Page No**	2 of 6
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	30/05/2023

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
19	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Sn	ASTM E1251-17a
20	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Ti	ASTM E1251-17a
21	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	V	ASTM E1251-17a
22	CHEMICAL- METALS & ALLOYS	Aluminium Base Alloy	Zn	ASTM E1251-17a
23	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Al	EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	As	EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Bi	EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Co	EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Fe	EN 15079
28	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Mn	EN 15079
29	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Ni	EN 15079
30	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Pb	EN 15079
31	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Sb	EN 15079
32	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Si	EN 15079
33	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Sn	EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper Base Alloy	Zn	EN-15079
35	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	C	MWI6-F6406
36	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	Co	MWI6-F6406
37	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	Cr	MWI6-F6406

SCOPE OF ACCREDITATION

Laboratory Name : MATERIALS ENGINEERING LAB, TATA MOTORS LTD, CHINHAT INDUSTRIAL AREA, DEVA ROAD, LUCKNOW, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5317 **Page No** 3 of 6

Validity 31/03/2022 to 30/03/2024 **Last Amended on** 30/05/2023

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
38	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	Mn	MWI6-F6406
39	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	Mo	MWI6-F6406
40	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	P	MWI6-F6406
41	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	S	MWI6-F6406
42	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	Si	MWI6-F6406
43	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	V	MWI6-F6406
44	CHEMICAL- METALS & ALLOYS	HSS/Tool Steel	W	MWI6-F6406
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Al	ASTM-E415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	C	ASTM-E415
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cr	ASTM-E415
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cu	ASTM-E415
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Mn	ASTM-E415
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Mo	ASTM-E415
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Ni	ASTM-E415
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	P	ASTM-E415
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	S	ASTM-E415
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Si	ASTM-E415
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	V	ASTM-E415
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Al	ASTM-1086

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5317	**Page No**	4 of 6
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	30/05/2023

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
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	B	ASTM-1086
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	C	ASTM-1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Co	ASTM-1086
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cr	ASTM-1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cu	ASTM-1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mn	ASTM-1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mo	ASTM-1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nb	ASTM-1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ni	ASTM-1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	P	ASTM-1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	S	ASTM-1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Si	ASTM-1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ti	ASTM-1086
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	V	ASTM-1086
71	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Melting Point(Onset Temperature)	ASTM D 3418
72	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber, Synthetic Rubber and Rubber Compound	Ash Content	ASTM E 1131
73	MECHANICAL- AUTOMOTIVE COMPONENTS	Automotive Materials	Horizontal Burning Test	IS 15061
74	MECHANICAL- AUTOMOTIVE COMPONENTS	Automotive Materials	Melting Behavior Test	IS 15061

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5317	**Page No**	5 of 6
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	30/05/2023

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75	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Materials	Vertical Burning Test	IS 15061
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness test - HBW 10/3000	IS 1500-1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell hardness Test 5/750	IS 1500-1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell hardness Test HBW 10/3000	IS 1500-1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell hardness Test- HBW 5/750	IS 1500-1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	IS 1608-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	IS 1608-1
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell hardness Test (HRA)	IS 1586-1
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell hardness Test (HRA)	IS 1586-1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell hardness Test (HRBW)	IS 1586-1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRC)	IS 1586-1
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness test (HRC)	IS 1586-1
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608-1
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608-1

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5317	**Page No**	6 of 6
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	30/05/2023

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker's Hardness Test - HV 0.2	IS 1501-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker's hardness Test HV0.2	IS 1501-1
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker's Hardness Test HV1.0	IS 1501-1
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker's Hardness Test HV10	IS 1501-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker's hardness Test HV10	IS 1501-1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	IS 1608-1
95	MECHANICAL-METALLOGRAPHY TEST	Hardened Steel	Case depth by hardness method, HV0. 2, HV1	IS 6416
96	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Flame Penetration Test	IS 5509
97	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Flammability Test	IS 5509
98	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Rate of Burning Test	IS 5509