National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIALS LABORATORY, CUMMINS INDIA LTD, DHANUKAR COLONY, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7310 **Page No** 1 of 6

Validity 24/05/2023 to 23/05/2025 **Last Amended on** -

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- METALS & ALLOYS	Aluminum and its alloys	Magnesium	ASTM E1251 Rev A
2	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Chromium	ASTM E1251 Rev A
3	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Copper	ASTM E1251 Rev A
4	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Iron	ASTM E1251 Rev A
5	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Lead	ASTM E1251 Rev A
6	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Manganese	ASTM E1251 Rev A
7	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Nickel	ASTM E1251 Rev A
8	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Phosphorus	ASTM E1251 Rev A
9	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Silicon	ASTM E1251 Rev A
10	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Tin	ASTM E1251 Rev A
11	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Titanium	ASTM E1251 Rev A
12	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Vanadium	ASTM E1251 Rev A
13	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Zinc	ASTM E1251 Rev A
14	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Zirconium	ASTM E1251 Rev A
15	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Aluminum	ASTME415
16	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Aluminum	JIS G1253 (E)
17	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Boron	ASTM E 415
18	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Carbon	ASTM E415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7310 **Page No** 2 of 6

Validity 24/05/2023 to 23/05/2025 **Last Amended on** -

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19	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Carbon	JIS G 1253 (E)
20	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Chromium	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Chromium	JIS G1253 (E)
22	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Cobalt	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Copper	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Copper	JIS G1253 (E)
25	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Manganese	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Molybdenum	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Nickel	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Phosphorus	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Silicon	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Silicon	JIS G 1253 (E)
31	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Sulphur	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon steel and alloy steel	Vanadium	ASTM E 415
33	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Aluminum	JIS G 1253 (E)
34	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Carbon	ASTM E1999
35	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Chromium	ASTM E 1999
36	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Chromium	JIS G 1253(E)
37	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Copper	ASTM E 1999

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Laboratory Name : MATERIALS LABORATORY, CUMMINS INDIA LTD, DHANUKAR COLONY, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7310 **Page No** 3 of 6

Validity 24/05/2023 to 23/05/2025 **Last Amended on** -

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38	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Copper	JIS G 1253 (E)
39	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Manganese	ASTM E1999
40	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Molybdenum	ASTM E 1999
41	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Molybdenum	JIS G 1253 (E)
42	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Nickel	ASTM E 1999
43	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Nickel	JIS G 1253 (E)
44	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Phosphorus	ASTM E1999
45	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Silicon	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Silicon	JIS G1253 (E)
47	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Sulfur	ASTM E 1999
48	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Sulfur	JIS G1253 (E)
49	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Tin	ASTM E 1999
50	CHEMICAL- METALS & ALLOYS	Chilled Cast iron	Titanium	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Chilled cast iron	Vanadium	ASTM E1999
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminum	JIS G 1253 (E)
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E1086
54	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E1086
55	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	JIS G 1253 (E)
56	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E1086

SCOPE OF ACCREDITATION

Laboratory Name : MATERIALS LABORATORY, CUMMINS INDIA LTD, DHANUKAR COLONY, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7310 **Page No** 4 of 6

Validity 24/05/2023 to 23/05/2025 **Last Amended on** -

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57	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	JIS G 1253 (E)
58	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	JIS G 1253 (E)
61	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	JIS G1253 (E)
63	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	JIS G 1253 (E)
64	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	JIS G 1253(E)
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E1086
67	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	JIS G1253 (E)
68	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	JIS G 1253 (E)
70	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	JIS G 1253(E)
71	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	JIS G 1253(E)
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fasteners and ferrous , non ferrous products	Tensile strength	ISO 898-1
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals , alloys and products	Ultimate tensile strength on tensile test samples	ASTM E8M
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Brinell hardness HBW10/500	ASTM E10

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Laboratory Name : MATERIALS LABORATORY, CUMMINS INDIA LTD, DHANUKAR COLONY, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7310 **Page No** 5 of 6

Validity 24/05/2023 to 23/05/2025 **Last Amended on** -

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75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Brinell hardness HBW 5/750	ASTM E10
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Brinell hardness HBW10/3000	ASTM E10
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Hardness Rockwell HR15N	ASTM E 18
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Hardness Rockwell HRBW	ASTM E 18
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Hardness Rockwell HRC	ASTM E18
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Hardness Vickers Microindentation hardness	ASTM E384
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Rockwell Hardness HR 15TW	ASTM E 18
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Tensile test - % Reduction in area Steel	ASTM E8 / 8M
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Tensile test -%Elongation	ASTM E 8 / E8M
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Tensile test : %Elongation (50kN load cell)	ASTM E8/ E 8M
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Ultimate tensile strength on tensile test specimens (50kN load cell)	ASTM E8/ E8M
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous metals and alloys	Yield strength (0.2% offset) on tensile test specimens (50kN load cell)	ASTM E8/ E8M
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals and alloys	Yield strength (0.2% offset) on tensile test specimens	ASTM E8/ E 8M
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys and products	Leeb Hardness test	ASTM A 956M

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7310	**Page No**	6 of 6
Validity	24/05/2023 to 23/05/2025	**Last Amended on**	-

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials , alloys and products	Rockwell hardness HRA	ASTM E18
90	MECHANICAL-METALLOGRAPHY TEST	Ferrous , non ferrous metals and alloys , products weld samples , parts .	Microstructure	ASM Handbook Volume 9
91	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous metals and alloys	Grain size measurement (By comparison method)	ASTM E 112