National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL CHARACTERISATION DIVISION, DRDL, KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/11/2022 to 25/11/2024 **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	Aluminium & its Alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorous	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS EN 15079

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19	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulphur	BS EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Aluminium	JIS G1253
23	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Carbon	JIS G1253
24	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Chromium	JIS G1253
25	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Cobalt	JIS G1253
26	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Copper	JIS G1253
27	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Manganese	JIS G1253
28	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Molybdenum	JIS G1253
29	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Nickel	JIS G1253
30	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Phosphorous	JIS G1253
31	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Silicon	JIS G1253
32	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Sulphur	JIS G1253
33	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Tin	JIS G1253
34	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Tungsten	JIS G1253
35	CHEMICAL- METALS & ALLOYS	High Speed Tool Steels & Maraging Steels	Vanadium	JIS G1253
36	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Carbon	ASTM E3047
37	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium	ASTM E3047

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38	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt	ASTM E3047
39	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	ASTM E3047
40	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Iron	ASTM E3047
41	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Manganese	ASTM E3047
42	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molybdenum	ASTM E3047
43	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium	ASTM E3047
44	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Silicon	ASTM E3047
45	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Titanium	ASTM E3047
46	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Aluminium	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Chromium	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Cobalt	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Copper	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Manganese	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Molybdenum	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Niobium	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Tin	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Titanium	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Vanadium	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Carbon	ASTM E415

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57	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Nickel	ASTM E415
58	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Phosphorous	ASTM E415
59	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Silicon	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Sulphur	ASTM E415
61	CHEMICAL- METALS & ALLOYS	Stainless Steels	Carbon	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steels	Chromium	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steels	Copper	ASTM E1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steels	Manganese	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steels	Molybdenum	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steels	Nickel	ASTM E1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steels	Phosphorous	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steels	Silicon	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steels	Sulphur	ASTM E1086
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASTM E8
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Yield Strength	ASTM E8
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness	ASTM E10
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Compressive Strength at Room Temperature	ASTM E9

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74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRBW)	ASTM E18
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRC)	ASTM E18
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ASTM E8
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV10)	ASTM E92
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV30)	ASTM E92
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pins & Grooved Pins	Double Shear Strength	ISO 8749
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Powder Metallurgy Specimens	Transverse Rupture Strength	ASTM B528
81	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metallic Materials	Micro-indentation Hardness (HV 0.3)	ASTM E384
82	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metallic Materials	Micro-indentation Hardness (HV 0.5)	ASTM E384
83	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metallic Materials	Average Grain Size	ASTM E112
84	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metallic Materials	Micro-indentation Hardness (HV 0.2)	ASTM E384
85	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metallic Materials	Microstructural Analysis	ASM Handbook Volume 09
86	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Content	ASTM E45