National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GEIIPL MATERIALS TESTING AND METALLOGRAPHY LABORATORY, PLOT 122, EXPORT PROMOTION INDUSTRIAL PARK, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10739 **Page No** 1 of 3

Validity 23/06/2022 to 22/06/2024 **Last Amended on** 04/08/2022

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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Elongation(%) at room temperature	ASTM E8
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Reduction of Area (RoA) at room temperature	ASTM E8
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & alloys	Yield Strength (0.2% YS) at elevated temperature (23º C to 815º C)	ASTM E21
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metal & alloys	Reduction of Area (RoA) at elevated temperature (23º C to 815º C)	ASTM E21
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Axial Force Controlled Constant Amplitude Fatigue at room and elevated temperatures (23º C to 815º C)	ASTM E466
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Elongation (%) at elevated temperature (23º C to 815º C)	ASTM E21
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Strain-Controlled Fatigue at room temperature and elevated temperature (23º C to 815º C)	ASTM E606
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile strength (UTS) at elevated temperature (23º C to 815º C)	ASTM E21
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile strength at room temperature	ASTM E8
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Strength at room temperature (0.2% YS)	ASTM E8
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Vickers hardness microindentation (HV 0.5)	ASTM E384
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and alloys	Vickers hardness microindentation (HV 1)	ASTM E384
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Metals and Alloys	Vickers hardness microindentation (HV 0.5)	ASTM E384

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Metals and Alloys	Vickers hardness microindentation (HV 1)	ASTM E384
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Material	Elongation (%) at room temperature	ASTM E8
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Material	Yield strength ((0.2% YS) at elevated temperature (23º C to 815º C)	ASTM E21
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Axial Force Controlled Constant Amplitude Fatigue at room and elevated temperatures (23º C to 815º C)	ASTM E466
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Elongation (%) at elevated temperature (23º C to 815º C)	ASTM E21
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Reduction of Area (RoA) at elevated temperature (23º C to 815º C)	ASTM E21
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Reduction of Area (RoA) at room temperature	ASTM E8
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Strain-Controlled Fatigue at room temperature and elevated temperature (23º C to 815º C)	ASTM E606
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Tensile Strength at room temperature	ASTM E8
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metallic Materials	Yield Strength at room temperature (0.2% YS)	ASTM E8
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metals	Tensile strength (UTS) at elevated temperature (23º C to 815º C)	ASTM E21
25	MECHANICAL-METALLOGRAPHY TEST	Ceramic Coatings	Ceramic coating thickness through cross-sectional microscopical examination	ASTM B487
26	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Alloy depletion thickness through cross-sectional microscopical examination	ASTM B487

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27	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Average grain size	ASTM E112
28	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Evaluation of Macro-structure after Macro-etching	ASTM E340
29	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Evaluation of Micro structure after Micro-etching	ASTM E407
30	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Inter granular attack thickness through cross-sectional microscopical examination	ASTM B487
31	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Recast layer thickness through cross-sectional microscopical examination	ASTM B487
32	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Susceptibility to intergranular attack in austenitic stainless steels (Intergranular Attack-Practice A)	ASTM A262
33	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Thickness through cross-sectional microscopical examination	ASTM B487
34	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals and alloys	Evaluation of Micro structure after Micro-etching	ASTM E407
35	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous Metals and Alloys	Alloy depletion thickness through cross-sectional microscopical examination	ASTM B487
36	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals and alloys	Average grain size	ASTM E112
37	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous Metals and Alloys	Diffusion coating thickness through cross-sectional microscopical examination	ASTM B487
38	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals and alloys	Evaluation of Macro-structure after Macro-etching	ASTM E340
39	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous Metals and Alloys	Inter granular attack thickness through cross-sectional microscopical examination	ASTM B487
40	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals and alloys	Recast layer thickness through cross-sectional microscopical examination	ASTM B487
41	MECHANICAL-METALLOGRAPHY TEST	Titanium Alloys	Alpha case thickness/depth through cross-sectional microscopical examination.	ASTM B487