National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELMECH LABS PVT. LTD., SUITE NO. B05, A-37, SECTOR-63, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized Steel	Adhesion Test	IS 2629 No. of Amendment 3
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized Steel	Mass of Zinc Coating (GSM)	IS 6745 No of Amend 5
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized Steel	Uniformity Test	IS 2633
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Phosphate Coated Steel	Mass of Phosphate Coating (GSM)	IS 3618
5	CHEMICAL- METALS & ALLOYS	Carbon steel	Aluminium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon steel	Carbon	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon steel	Chromium	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Carbon steel	Cobalt	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Carbon steel	Copper	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon steel	Manganese	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Carbon steel	Molybdenum	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon steel	Nickel	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Carbon steel	Niobium	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon steel	Phosphorous	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon steel	Silicon	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon steel	Sulphur	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon steel	Tin	ASTM E415

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18	CHEMICAL- METALS & ALLOYS	Carbon steel	Titanium	ASTM E415
19	CHEMICAL- METALS & ALLOYS	Carbon steel	Vanadium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM E1999
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorous	ASTM E1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
34	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Stainless steel	Cobalt	ASTM E1086

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37	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E1086
38	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E1086
40	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E1086
41	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	IS 228 (Part 23)
43	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E1086
45	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E1086
46	CHEMICAL- METALS & ALLOYS	Stainless steel	Tin	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	ASTM E1086
49	CHEMICAL- METALS & ALLOYS	Tool steel	Aluminium	JIS G-1253
50	CHEMICAL- METALS & ALLOYS	Tool steel	Carbon	JIS G-1253
51	CHEMICAL- METALS & ALLOYS	Tool steel	Chromium	JIS G-1253
52	CHEMICAL- METALS & ALLOYS	Tool steel	Cobalt	JIS G-1253
53	CHEMICAL- METALS & ALLOYS	Tool steel	Manganese	JIS G-1253
54	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdenum	JIS G-1253
55	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorous	JIS G-1253

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56	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon	JIS G-1253
57	CHEMICAL- METALS & ALLOYS	Tool steel	Sulphur	JIS G-1253
58	CHEMICAL- METALS & ALLOYS	Tool steel	Tungsten	JIS G-1253
59	CHEMICAL- METALS & ALLOYS	Tool steel	Vanadium	JIS G-1253
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	0.2% Proof Stress	ASME SEC IIC
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	0.2% Proof Stress	ASTM A370
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	0.2% Proof Stress	ASTM E8
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	0.2% Proof Stress	IS 1608 (PART-1)
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	0.2% Proof Stress	ISO 6892 (PART-1)
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Area Reduction %	ASTM A370
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Area Reduction %	ASTM E8
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Area Reduction %	IS 1608 (PART-1)
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Area Reduction %	ISO 6892 (PART-1)
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Bend Test	ASTM A370
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Bend Test	IS 1599

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71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Bend Test of Pipe	ISO 7438
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Brinell Hardness (BHN)	ASTM E10
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Brinell Hardness (HBW)	ASTM A370
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Brinell Hardness (HBW)	IS 1500 (PART-1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Charpy Impact Test	ASTM A370
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Charpy Impact Test	ASTM E23
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Charpy Impact Test	IS 1757 (P-1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Decarburization Depth	IS 6396
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Dimension, mm	ELPL/SOP-01/WI-19
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Drift Expansion Test Pipe	IS 2335
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Elongation %	ASME SEC IIC
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Elongation %	ASTM A370
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Elongation %	ASTM E8
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Elongation %	IS 1608 (PART-1)

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85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Elongation %	ISO 6892 (PART-1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Flaring Test of Pipe	ASTM A370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Flattening Test of Pipe	ASTM A370
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Flattening Test of Pipe	IS 2328
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Fracture Test	ASME SEC IX
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Fracture Test	ISO 15614 (PART-1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Izod Impact Test	IS 1598
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Micro Vickers Hardness (HV)	IS 1501 (PART-1)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Micro Vickers Hardness (HV1)	ISO 15614 (PART-1)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Microvicker Hardness (HV)	ASTM A370
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Mockup Test	ASME SEC IX
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Proof Load Test of Bolt	ISO 1367 (PART-3)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Proof Load Test of Fasteners	ISO 898 (PART-1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Proof Load Test of Nut	ISO 1367 (PART-6)

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99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Re-bend Test	IS 1786
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Rockwell Hardness (HRA)	IS 1586 (PART-1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Rockwell Hardness (HRBW)	ASTM A370
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Rockwell Hardness (HRBW)	IS 1586 (PART-1)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Rockwell Hardness (HRC)	ASTM A370
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Rockwell Hardness (HRC)	IS 1586 (PART-1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Root, Face, Side Bend Test	ASME SEC IX
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Root, Face, Side Bend Test	EN910
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Root, Face, Side Bend Test	ISO 15614 (PART-1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ASME SEC IIC
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ASME SEC IX
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ASTM A370
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ASTM E8
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	IS 1608 (PART-1)

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113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ISO 15614 (PART-1)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Load Test	ISO 6892 (PART-1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ASME SEC IIC
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ASTM A370
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ASTM E8
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ASTM SEC IX
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	IS 1608 (PART-1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ISO 15614 (PART-1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Tensile Strength	ISO 6892 (PART-1)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Yield Stress	ASME SEC IIC
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Yield Stress	ASTM A370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Yield Stress	ASTM E8
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Yield Stress	IS 1608 (PART-1)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Metal Products	Yield Stress	ISO 6892 (PART-1)

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127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar	Mass per meter (Kg)	IS 1786 RA 2013
128	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Case Depth	IS 6416
129	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Decarburization Depth	IS 6396
130	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Grain Size	ASTM E112
131	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM A262 Practice A
132	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM A262 Practice B
133	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM A262 Practice C
134	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM A262 Practice E
135	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM G28 Method A & Method B
136	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	IGC Test	ASTM G48, Method A & Method B
137	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Inclusion Rating	ASTM E45
138	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Inclusion Rating	IS 4163
139	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Macro Examination	ASME SEC IX
140	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Macro Examination	ASTM E340
141	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Macro Examination	ASTM E381
142	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Macro Examination	ISO 15614 (PART-1)
143	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Micro structure Test	IS 7754
144	MECHANICAL-METALLOGRAPHY TEST	Metal & Metal Products	Microstructure Test	ASM Vol 9

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145	MECHANICAL-METALLOGRAPHY TEST	Metal and Oxide coated steel	Plating Thickness	ASTM B487