



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD.**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI, KOLHAPUR, MAHARASHTRA, INDIA

in the field of

**TESTING**

Certificate Number: NABLT0626MH18214 (In lieu of TC-5859)

Issue Date: 30/06/2026

Valid Until: 29/06/2030

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: ELCA QUALITY SYSTEMS & CALIBRATIONS PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani  
Director

Dr. Ramanand N. Shukla  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI,  
KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

1 of 19

**Validity**

30/06/2026 to 29/06/2030

**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 Testing				
1	CHEMICAL-CORROSION TESTS	Coated Metallic Materials	Salt Spray Test	ASTM B117
2	CHEMICAL-CORROSION TESTS	Coated Metallic Materials	Salt Spray Test (Neutral Salt Spray)	ISO 9227
3	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	IS 11035
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 11035
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	IS 11035



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## SCOPE OF ACCREDITATION

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

2 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
17	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	IS 11035
20	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	IS 11035
22	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Carbon	IS 9879
23	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Chromium	IS 9879
24	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Manganese	IS 9879
25	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Molybdenum	IS 9879
26	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Nickel	IS 9879
27	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Phosphorus	IS 9879
28	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Silicon	IS 9879
29	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steel	Sulphur	IS 9879
30	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Carbon	ASTM E1086
31	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Chromium	ASTM E1086
32	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Copper	ASTM E1086



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## SCOPE OF ACCREDITATION

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ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI,  
KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

3 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
33	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Manganese	ASTM E1086
34	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Molybdenum	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Nickel	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Phosphorus	ASTM E1086
37	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Silicon	ASTM E1086
38	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Sulphur	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI,  
KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

4 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
56	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BS EN 15079
57	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS EN 15079



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI,  
KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

5 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
65	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Iron & Steel	Aluminium	JIS G 1253: Amendment 1
67	CHEMICAL- METALS & ALLOYS	Iron & Steel	Boron	JIS G 1253: Amendment 1
68	CHEMICAL- METALS & ALLOYS	Iron & Steel	Carbon	JIS G 1253: Amendment 1
69	CHEMICAL- METALS & ALLOYS	Iron & Steel	Chromium	JIS G 1253: Amendment 1
70	CHEMICAL- METALS & ALLOYS	Iron & Steel	Cobalt	JIS G 1253: Amendment 1
71	CHEMICAL- METALS & ALLOYS	Iron & Steel	Copper	JIS G 1253: Amendment 1
72	CHEMICAL- METALS & ALLOYS	Iron & Steel	Lead	JIS G 1253: Amendment 1
73	CHEMICAL- METALS & ALLOYS	Iron & Steel	Manganese	JIS G 1253: Amendment 1
74	CHEMICAL- METALS & ALLOYS	Iron & Steel	Molybdenum	JIS G 1253: Amendment 1
75	CHEMICAL- METALS & ALLOYS	Iron & Steel	Nickel	JIS G 1253: Amendment 1
76	CHEMICAL- METALS & ALLOYS	Iron & Steel	Niobium	JIS G 1253: Amendment 1
77	CHEMICAL- METALS & ALLOYS	Iron & Steel	Nitrogen	JIS G 1253: Amendment 1
78	CHEMICAL- METALS & ALLOYS	Iron & Steel	Phosphorus	JIS G 1253: Amendment 1
79	CHEMICAL- METALS & ALLOYS	Iron & Steel	Silicon	JIS G 1253: Amendment 1
80	CHEMICAL- METALS & ALLOYS	Iron & Steel	Sulphur	JIS G 1253: Amendment 1



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

6 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
81	CHEMICAL- METALS & ALLOYS	Iron & Steel	Titanium	JIS G 1253: Amendment 1
82	CHEMICAL- METALS & ALLOYS	Iron & Steel	Tungsten	JIS G 1253: Amendment 1
83	CHEMICAL- METALS & ALLOYS	Iron & Steel	Vanadium	JIS G 1253: Amendment 1
84	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Aluminium	ASTM E415
85	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Aluminium	IS 8811
86	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Boron	ASTM E415
87	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Boron	IS 8811
88	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Carbon	ASTM E415
89	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Carbon	IS 8811
90	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Chromium	ASTM E415
91	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Chromium	IS 8811
92	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Cobalt	ASTM E415
93	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Cobalt	IS 8811
94	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Copper	ASTM E415
95	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Copper	IS 8811
96	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Manganese	ASTM E415



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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

7 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
97	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Manganese	IS 8811
98	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Molybdenum	ASTM E415
99	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Molybdenum	IS 8811
100	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Nickel	ASTM E415
101	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Nickel	IS 8811
102	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Niobium	ASTM E415
103	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Niobium	IS 8811
104	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Phosphorous	IS 8811
105	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Phosphorus	ASTM E415
106	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Silicon	ASTM E415
107	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Silicon	IS 8811
108	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Sulphur	ASTM E415
109	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Sulphur	IS 8811
110	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Titanium	ASTM E415
111	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Titanium	IS 8811
112	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Vanadium	ASTM E415



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## SCOPE OF ACCREDITATION

**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

8 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
113	CHEMICAL- METALS & ALLOYS	Low carbon, Medium carbon & High carbon steel	Vanadium	IS 8811
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steels & Alloys Steel - Threaded Fasteners (Bolt, Screw and Studs)	Proof Load	IS 1367 (Part 3)
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steels & Alloys Steel - Threaded Fasteners (Bolt, Screw and Studs)	Proof Load	ISO 898-1
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steels & Alloys Steel - Threaded Fasteners (Nut)	Proof Load	IS 1367 (Part 6)
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steels & Alloys Steel - Threaded Fasteners (Nut)	Proof Load	ISO 898-2
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Duplex, Austenite/ Ferritic Stainless Steels	Charpy Impact Test Method B	ASTM A923
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438



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**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

9 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 10/3000)	ISO 6506-1
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 10/500)	ASTM E10
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 10/500)	IS 1500 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 10/500)	ISO 6506-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 5/750)	ISO 6506-1
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 5/750)	ASTM E10
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW 5/750)	IS 1500 (Part 1)
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW10/3000)	IS 1500 (Part 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (HBW10/3000)	ASTM E10



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI,  
KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

10 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test 'V' Notch (Temp: 30°C to -101°C & -196°C)	ISO 148 (Part 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test V Notch (Temp: 30°C to -101°C & -196°C)	ASTM E23
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ASTM E18
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	IS 1586 (Part 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ISO 6508-1
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ASTM E18
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	IS 1586 (Part 1)
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ISO 6508-1
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ASTM E18



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## SCOPE OF ACCREDITATION

**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

11 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	IS 1586 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ISO 6508-1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.1% Proof Stress)	ASTM E8/8M
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.1% Proof Stress)	IS 1608 (Part 1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.1% Proof Stress)	ISO 6892-1
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.2% Proof Stress)	ASTM E8/8M
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.2% Proof Stress)	IS 1608 (Part 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.2% Proof Stress)	ISO 6892-1
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.5% Proof Stress)	ASTM E8/8M



# National Accreditation Board for Testing and Calibration Laboratories

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

12 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.5% Proof Stress)	IS 1608 (Part 1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (0.5% Proof Stress)	ISO 6892-1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ASTM E8/8M
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	IS 1608 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ISO 6892-1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction in Area)	ASTM E8/8M
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction in Area)	IS 1608 (Part 1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction in Area)	ISO 6892-1
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASTM E8/8M



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

13 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	IS 1608 (Part 1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ISO 6892-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress)	ASTM E8/8M
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress)	IS 1608 (Part 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress)	ISO 6892-1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ASTM E92
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	IS 1501 (Part 1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ISO 6507-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ASTM E92



# National Accreditation Board for Testing and Calibration Laboratories

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**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

14 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	IS 1501 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ISO 6507-1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ASTM E92
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	IS 1501 (Part 1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ISO 6507-1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 5/750)	ASTM A370
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW10/3000)	ASTM A370
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy Impact Test 'V' Notch (Temp: 30°C to -101°C & -196°C)	ASTM A370



# National Accreditation Board for Testing and Calibration Laboratories

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**Laboratory Name :**

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**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

15 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Proof Load-Bolt	ASTM A370
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness HRA	ASTM A370
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness HRBW	ASTM A370
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness HRC	ASTM A370
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (0.1% Proof Stress)	ASTM A370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (0.2% Proof Stress)	ASTM A370
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (0.5% Proof Stress)	ASTM A370
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Elongation)	ASTM A370
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Reduction in Area)	ASTM A370



# National Accreditation Board for Testing and Calibration Laboratories

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

16 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Ultimate Tensile Strength)	ASTM A370
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Yield Stress)	ASTM A370
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Bend test	ASME Sec.IX (QW-160, QB-160)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Charpy Impact Test	ASTM E23
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Fillet Weld Test (Fracture Test)	ASME Sec.IX (QW-182)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (0.2% Proof Stress)	ASTM A370
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Elongation)	ASTM A370
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Reduction in Area)	ASTM A370
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASME Sec IX (QW-150)



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

17 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASTM A370
195	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels , Test Practice-A Oxallic Acid Etch Test	ASTM A262
196	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to intergranular attack in Austenitic Stainless Steels, Test Practice-B.	ASTM A262
197	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, Test Practice-C.	ASTM A262
198	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, Test Practice-E.	ASTM A262
199	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Designation of Microstructure of Graphite in Cast Iron	IS 7754
200	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Evaluating the microstructure of Graphite in Iron Castings	ASTM A247
201	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Classification by visual analysis	ISO 945-1
202	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/ Ferritic Stainless Steel	Detecting Detrimental Intermetallic Phase test Method A	ASTM A923
203	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/ Ferritic Stainless Steel	Detecting Detrimental Intermetallic Phase test Method C	ASTM A923



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., SPV COMPOUND, PLOT NO. 9, MIDC, SHIROLI, KOLHAPUR, MAHARASHTRA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	NABLT0626MH18214	<b>Page No</b>	18 of 19
<b>Validity</b>	30/06/2026 to 29/06/2030	<b>Last Amended on</b>	-

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
204	MECHANICAL-METALLOGRAPHY TEST	Metal, Metal Alloys & Products	Microstructure Analysis	ASM Handbook Vol.9
205	MECHANICAL-METALLOGRAPHY TEST	Metal, Metal Alloys & Products	Testing Local Thickness of Electrocoated Coatings by Microscopic Method	IS 3203
206	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
207	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Average Grain Size	ASTM E112
208	MECHANICAL-METALLOGRAPHY TEST	Nickel- Rich, Chromium Bearing-Alloys	Detecting Susceptibility to Intergranular Corrosion Test, Method A.	ASTM G28
209	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels & Related Alloys	Crevice Corrosion Test Practice B- Ferric chloride Crevice Test	ASTM G48
210	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels & Related Alloys	Pitting Corrosion Test: Practice A - Ferric chloride Pitting Test	ASTM G48
211	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms & Forgings	Macroetch Testing	ASTM E381
212	MECHANICAL-METALLOGRAPHY TEST	Steels	Determining the Inclusion Content	ASTM E45
213	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Content of Non-Metallic Inclusions	IS 4163
214	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	EN ISO 643
215	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	IS 4748



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KOLHAPUR, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

NABLT0626MH18214

**Page No**

19 of 19

**Validity**

30/06/2026 to 29/06/2030

**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
216	MECHANICAL-METALLOGRAPHY TEST	Steels	Estimating the Depth of Decarburization	ASTM E1077
217	MECHANICAL-METALLOGRAPHY TEST	Steels	Measuring Case Depth of Steel by Microscopic Method	IS 6416
218	MECHANICAL-METALLOGRAPHY TEST	Steels	Measuring Decarburized Depth of Steel	IS 6396
219	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro Structure Analysis	ASME Sec.IX