National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES 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

SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-13139

Issue Date: 27/02/2026 **Valid Until:** 26/02/2030

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)

Name of Legal Entity: RATNAMANI METALS & TUBES LIMITED

Signed for and on behalf of NABL

Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 1 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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- METALS & ALLOYS	Nickel & its alloys	Aluminium	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024 "
2	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024 "
3	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024 "
4	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024 "
5	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024 "
6	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
7	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
8	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
9	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
10	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
11	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 2 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
12	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
13	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
14	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
15	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
16	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	"SP-26 Issue No. 01 dated:13.01.2024, LDM-OES-Nickel & Its Alloys dated 13.01.2024
17	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
18	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JIS G 1253
19	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086-22
20	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879- 1998
21	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
22	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E1086-22
23	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879- 1998
24	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
26	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E1086-22
27	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879-1998

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 3 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
28	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E1086-22
30	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879-1998
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E1086-22
33	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879-1998
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E1086-22
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879-1998
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E1086-22
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879-1998
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086-22
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879-1998
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulfur	ASTM E1086-22
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 9879-1998

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 4 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	% Elongation - up to 850°C	ASTM E21
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation-up to 850°C	IS 1608-2
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Ultimate Tensile strength - up to 850°C	ISO 6892-2
56	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	% Elongation	ASTM E8/E8M-25
57	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	% Elongation	BS EN 2002-1
58	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	% Elongation	IS 1608 (Part 1)
59	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	% Elongation - up to 850°C	ISO 6892-1
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	% Elongation - up to 850°C	ISO 6892-2
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	% Elongation up to 850°C	IS 1608-2
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	0.2% Proof Strength	BS EN 2002-1
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	1.0% Proof Strength	BS EN 2002-1

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 5 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Bend test (2mm, 3mm, 6mm, 10mm, 12mm, 15mm, 18mm, 20mm, 25mm, 30mm, 35mm & 40mm)	ISO 7438
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Bend test (2mm, 3mm, 6mm, 10mm, 12mm, 15mm, 18mm, 20mm, 25mm, 30mm, 35mm & 40mm)	ISO 8491
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Brinell Hardness 2.5/187.5	ISO 6506-1
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Brinell Hardness test (2.5/187.5)	ASTM E10-23
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Brinell HardnessTest (2.5/187.5)	IS 1500-1
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 15T)	ASTM E18-25
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 15T)	IS 1586 (Part-1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 30T)	ASTM E18-25
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 30T)	IS 1586 (Part-1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Rockwell Hardness test (HR 30T)	ISO 6508-1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 45T)	ASTM E18-25
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HR 45T)	IS 1586 (Part-1)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Rockwell Hardness test (HR15T)	ISO 6508-1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Rockwell Hardness test (HR45T)	ISO 6508-1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 6 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HRB)	ASTM E18-25
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HRB)	IS 1586 (Part-1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Rockwell Hardness test (HRB)	ISO 6508-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HRC)	ASTM E18-25
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Rockwell Hardness Test (HRC)	IS 1586 (Part-1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Rockwell Hardness test (HRC)	ISO 6508-1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Ultimate tensile - up to 850°C strength- up to 850°C	IS 1608-2
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Ultimate Tensile Strength	ASTM E8/E8M-25
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Ultimate Tensile Strength	BS EN 2002-1
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Ultimate Tensile Strength	IS 1608 (Part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Ultimate Tensile Strength - up to 850°C	ISO 6892-1
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Ultimate tensile strength- up to 850°C	ASTM E21-20
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV5	ASTM E92-23
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV5	IS 1501 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 7 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV5	ISO 6507-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV10	ASTM E92
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV10	ISO 6507-1
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Vickers Hardness Test HV10	IS 1501 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength	ASTM E8/E8M-25
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength	IS 1608 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.2% proof Strength)	ASTM E8/E8M-25
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength - up to 850°C	ISO 6892-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.2% proof Strength)	IS 1608 (Part 1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.2% proof Strength)	ISO 6892-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield Strength (0.2% proof strength) - up to 850°C	ISO 6892-2
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield strength (0.2% proof strength) - up to 850°C	ASTM E21-20
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield Strength (0.2% proof strength) up to 850 °C	IS 1608 (Part 2)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.5% EUL)	ASTM E8/E8M-25

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 8 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.5% EUL)	IS 1608 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (0.5% EUL)	ISO 6892-1
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (1.0% proof Strength)	ASTM E8/E8M-25
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (1.0% proof Strength)	IS 1608 (Part 1)
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys	Yield Strength (1.0% proof Strength)	ISO 6892-1
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield Strength (1.0% proof strength) - up to 850°C	ASTM E21-20
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield Strength (1.0% proof strength) - up to 850°C	ISO 6892-2
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & Its Alloys	Yield Strength (1.0% proof strength) up to 850 °C	IS 1608 (Part 2)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys for Tubular Products	Flaring Test	ASME SB-829
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys for Tubular Products	Flattening Test	EN ISO 8492
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel & its alloys for Tubular products	Tube Drift Expanding Test	EN ISO 8493
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation	ASTM A370-24a
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation	ASTM E8/E8M-25
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation	BS EN 2002-1

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 9 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation	IS 1608(Part 1)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation	ISO 6892-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation - up to 850°C	ASTM E21
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	% Elongation - up to 850°C	ISO 6892-2
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	0.2% Proof Strength	BS EN 2002-1
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	1.0% Proof Strength	BS EN 2002-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Bend test (2mm, 3mm, 6mm, 10mm, 12mm, 15mm, 18mm, 20mm, 25mm, 30mm, 35mm & 40mm)	ISO 7438
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Bend Test (2mm, 3mm, 6mm, 10mm, 12mm, 15mm, 18mm, 20mm, 25mm, 30mm, 35mm & 40mm)	ISO 8491
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Brinell Hardness 2.5/187.5	ASTM E10-23
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Brinell Hardness Test(2.5/187.5)	IS 1500-1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Brinell Hardness Test(2.5/187.5)	ISO 6506-1
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Brinell HardnessTest (2.5/187.5)	ASTM A370-24a
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness (HR 30T)	ISO 6508-1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 15T)	ASTM A370-24a

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 10 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 15T)	ASTM E18-25
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 15T)	IS 1586 (Part-1)
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness test (HR 15T)	ISO 6508-1
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 30T)	ASTM A370-24a
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 30T)	ASTM E18-25
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 30T)	IS 1586 (Part-1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 45T)	ASTM A370-24a
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 45T)	ASTM E18-25
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HR 45T)	IS 1586 (Part-1)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness test (HR 45T)	ISO 6508-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRB)	ASTM A370-24a
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRB)	ASTM E18-25
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRB)	IS 1586 (Part-1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness test (HRB)	ISO 6508-1

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 11 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRC)	ASTM A370-24a
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRC)	ASTM E18-25
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness Test (HRC)	IS 1586 (Part-1)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Rockwell Hardness test (HRC)	ISO 6508-1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Tube Drift Expanding Test	EN ISO 8493
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength	ASTM A370-24a
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength	ASTM E8/E8M-25
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength	BS EN 2002-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength	IS 1608 (Part 1)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength	ISO 6892-1
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless steel	Ultimate tensile strength - up to 850°C	ASTM E21-20
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate tensile strength - up to 850°C	IS 1608-2
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate tensile strength - up to 850°C	ISO 6892-2
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vickers Hardness Test HV5	IS 1501 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 12 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless steel	Vickers Hardness Test HV5	ASTM E92-23
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vickers Hardness Test HV5	ISO 6507-1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vickers Hardness Test HV10	ASTM E92
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vickers Hardness Test HV10	ISO 6507-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vickers Hardness Test HV10	IS 1501 (Part 1)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength	ASTM A370-24a
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength	ASTM E8/E8M-25
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength	IS1608 (Part 1)
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength	ISO 6892-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.2% proof Strength)	ASTM A370-24a
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.2% proof Strength)	ASTM E8/E8M-25
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.2% proof strength)	IS 1608 (Part 1)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.2% proof Strength)	ISO 6892-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength (0.2% proof strength) - up to 850°C	ASTM E21-20

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 13 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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	Stainless Steel	Yield strength (0.2% proof strength) - up to 850°C	ISO 6892-2
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength (0.2% proof strength) up to 850°C	IS 1608 (Part 2)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% EUL)	ASTM A370-24a
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% EUL)	ASTM E8/E8M-25
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% EUL)	IS 1608 (Part 1)
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% EUL)	ISO 6892-1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof strength)	ASTM A370-24a
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof Strength)	ASTM E8/E8M-25
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof Strength)	IS 1608 (Part 1)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof Strength)	ISO 6892-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof strength) - up to 850°C	ASTM E21-20
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof strength) - up to 850°C	ISO 6892-2
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof strength) up to 850°C	IS 1608 (Part 2)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel of Tubular Products	Flaring Test	ASTM A370-24a

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 14 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel of Tubular Products	Flattening Test	ASTM A370-24a
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel of Tubular Products	Flattening Test	EN ISO 8492
192	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	ASTM Grain Size	ASTM E112-25, Comparison Method
193	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	ASTM Grain Size	ASTM E1181-02
194	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detecting inter-metallic phase	ASTM A923-25, Test Method A – (Sodium Hydroxide Etch Test)
195	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Ferrite Content Measurement	ASTM A800 / A800M-20, Ferrite content measurement by magnetic response
196	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Ferrite Content Measurement / Volume Fraction Measurement	ASTM E562-19e1
197	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Huey Test	ISO 3651-1
198	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Microstructure Examination	ISO 17781
199	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Test Method C- Ferric Chloride Corrosion Test	ASTM A923 Clause 14
200	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	ASTM Grain Size	ASTM E112-13
201	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Crevice Corrosion Method B-Ferric Chloride Crevice test	ASTM G48-11(2020)e1
202	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	General Micro structure	ASM Handbook Volume 9
203	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	IGC METHOD A—Ferric Sulfate—Sulfuric Acid Test	ASTM G28
204	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	IGC METHOD B—Mixed Acid-Oxidating Salt Test	ASTM G28
205	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	IGC Practice B- Ferric Sulfate-Sulfuric Acid test	SP-27 Issue No. 01 dated : 20.01.2024
206	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	IGC Practice C- Nitric Acid Test	SP-27 Issue No. 01 dated : 20.01.2024
207	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Inclusion Rating	ASTM E45-25, Method “A” (Worst Fields) / Method “D” (Low inclusion content)
208	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Inclusion Rating	ISO 4967 Inclusion Rating by Method A

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 15 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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209	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Macro Etch Test	ASTM E340-15
210	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Pitting Corrosion Method A-Ferric Chloride Pitting Test	ASTM G48-11(2020)e1
211	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Stress Corrosion Cracking Test	SP-27 Issue No. 01 dated : 20.01.2024
212	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	AM Method	GOST 6032
213	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	AMU method	GOST 6032
214	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	ASTM Grain Size	ASTM E112-13
215	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Crevice corrosion Method B-Ferric Chloride Crevice test	ASTM G48 Clause 9
216	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Ferrite Content Measurement	ASTM A800 / A800M-20, Ferrite content measurement by magnetic response
217	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	General Micro structure	ASM Handbook Volume 9
218	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Method A- 16% Sulfuric Acid-Copper Sulfate Test	EN ISO 3651 - 2
219	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Method B- 35% Sulfuric Acid-Copper Sulfate Test	EN ISO 3651-2
220	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Method C- 40% Sulfuric Acid-Ferric Sulfate Test	EN ISO 3651-2
221	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice A- Oxalic Acid Etch Test	ASTM A262-15
222	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice B- Ferric Sulfate-Sulfuric Acid test	ASTM A262-15 Clause 14
223	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice C- Nitric Acid Test	ASTM A262 Clause 26
224	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice E- Copper-Copper Sulfate-16%Sulfuric Acid Test	ASTM A262-15
225	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice W- Oxalic Acid Etch Test	ASTM A 763-15
226	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice Z- Copper-Copper Sulfate-16%Sulfuric Acid Test	ASTM A763-15
227	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Inclusion Rating	ASTM E45-25 Method “A” (Worst Fields)/ Method “D” (Low inclusion content)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. / Q.C. LAB, S.S. PLANT, INDRAD WORKS RATNAMANI METALS & TUBES LTD., SURVEY NO. 423, AHMEDABAD-MEHSANA HIGHWAY, VILLAGE: INDRAD, TA. KADI, CHHATRAL, MEHSANA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13139 **Page No** 16 of 16

Validity 27/02/2026 to 26/02/2030 **Last Amended on** 15/05/2026

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
228	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Inclusion Rating	ISO 4967 Method A
229	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Macro Etch Test	ASTM E340-15
230	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Pitting Corrosion Method A-Ferric Chloride Pitting Test	ASTM G48 Clause 8
231	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Stress Corrosion Cracking test	ASTM G36-94
232	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Stress Corrosion Cracking Test	RMTL Work Instruction No.: RMTL-ISS-QA&C-WI29 Issue R0 & Issue date:01.05.2018