National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

QA/QC LAB, SS PLANT, KUTCH WORKS, RATNAMANI METALS & TUBES LIMITED

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. 474, BHACHAU-ANJAR ROAD, VILLAGE BHIMASAR, ANJAR, KACHCHH, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: NABLT0626GJ18210 (In lieu of TC-13662)

Issue Date: 09/06/2026 **Valid Until:** 08/06/2030

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)

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 : QA/QC LAB, SS PLANT, KUTCH WORKS, RATNAMANI METALS & TUBES LIMITED, SURVEY NO. 474, BHACHAU-ANJAR ROAD, VILLAGE BHIMASAR, ANJAR, KACHCHH, GUJARAT, INDIA

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Validity 09/06/2026 to 08/06/2030 **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- METALS & ALLOYS	Stainless Steel	Carbon (C)	ASTM E1086
2	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	ASTM E1086
3	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (Cu)	ASTM E1086
4	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	ASTM E1086
5	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	ASTM E1086
6	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	ASTM E1086
7	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	ASTM E1086
8	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	ASTM E1086
9	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	ASTM E1086
10	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Hydrogen	ASTM E1447
11	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Nitrogen	ASTM E1409
12	CHEMICAL- METALS & ALLOYS	Titanium Coil, Strip, Plate, Tubes and Pipes	Oxygen	ASTM E1409
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	0.2% Proof Test	GOST 1497
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	0.2% Proof Test	ISO 6892-1

SCOPE OF ACCREDITATION

Laboratory Name : QA/QC LAB, SS PLANT, KUTCH WORKS, RATNAMANI METALS & TUBES LIMITED, SURVEY NO. 474, BHACHAU-ANJAR ROAD, VILLAGE BHIMASAR, ANJAR, KACHCHH, GUJARAT, INDIA

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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
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	1.0% Proof Test	GOST 1497
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	1.0% Proof Test	ISO 6892-1
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test (Mandrel Dia (mm): 2.00, 2.80, 4.50, 5.50, 6.00, 8.00, 12.00, 16.00, 20.00, 25.00, 30.00, 32.00, 36.00, 38.00, 44.00, 60.00, 65.00, 70.00, 75.00, 80.00, 85.00, 90.00, 100.00, 110.00, 120.00, 140.00, 150.00, 160.00, 175.00 & 200.00)	ASTM A370
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test (Mandrel Dia (mm): 2.00, 2.80, 4.50, 5.50, 6.00, 8.00, 12.00, 16.00, 20.00, 25.00, 30.00, 32.00, 36.00, 38.00, 44.00, 60.00, 65.00, 70.00, 75.00, 80.00, 85.00, 90.00, 100.00, 110.00, 120.00, 140.00, 150.00, 160.00, 175.00 & 200.00)	BS EN ISO 5173

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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
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test (Mandrel Dia (mm): 2.00, 2.80, 4.50, 5.50, 6.00, 8.00, 12.00, 16.00, 20.00, 25.00, 30.00, 32.00, 36.00, 38.00, 44.00, 60.00, 65.00, 70.00, 75.00, 80.00, 85.00, 90.00, 100.00, 110.00, 120.00, 140.00, 150.00, 160.00, 175.00 & 200.00)	GOST 14019
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test (Mandrel Dia (mm): 2.00, 2.80, 4.50, 5.50, 6.00, 8.00, 12.00, 16.00, 20.00, 25.00, 30.00, 32.00, 36.00, 38.00, 44.00, 60.00, 65.00, 70.00, 75.00, 80.00, 85.00, 90.00, 100.00, 110.00, 120.00, 140.00, 150.00, 160.00, 175.00 & 200.00)	GOST 6996
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact test (V Notch) at (Ambient Temperature to -90ºC & at -196ºC)	ASTM E23
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact test (V Notch) at (Ambient Temperature to -90ºC & at -196ºC)	GOST 6996
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact test (V Notch) at (Ambient Temperature to -90ºC & at -196ºC)	GOST 9454
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy Impact test (V Notch) at (Ambient Temperature to -90ºC & at -196ºC)	ISO 148-1

SCOPE OF ACCREDITATION

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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
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Drift Expanding Test (2 to 150 mm OD & 0.1 to 15 mm THK) (Cone size: 60° and 74°)	EN ISO 8493
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ASTM A370
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	GOST 10006
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	GOST 1497
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	GOST 6996
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ISO 6892-1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flanging Test	ASTM A370
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring Test (2 to 150 mm OD & 0.1 to 15 mm THK) (Cone size: 60° and 74°)	ASTM A370
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring Test (2 to 150 mm OD & 0.1 to 15 mm THK) (Cone size: 60° and 74°)	GOST 8694

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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
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring Test (2 to 150 mm OD & 0.1 to 15 mm THK) (Cone size: 60° and 74°)	GOST 11706
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A370
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	EN ISO 8492
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	GOST 8695
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reverse Bend Test	ASTM A1016/1016M
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reverse Flattening Test	ASTM A370
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR15N)	ASTM A370
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR15N)	ISO 6508-1
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR15TW)	ASTM A370

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43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR15TW)	ISO 6508-1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR30N)	ASTM A370
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR30N)	ISO 6508-1
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR30TW)	ASTM A370
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR30TW)	ISO 6508-1
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR45N)	ASTM A370
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR45N)	ISO 6508-1
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR45TW)	ASTM A370
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HR45TW)	ISO 6508-1

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52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRBW)	ASTM A370
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRBW)	GOST 9013
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRBW)	ISO 6508-1
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	ASTM A370
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	ISO 6508-1
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM A370
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	GOST 10006
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	GOST 1497
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	GOST 6996

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61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ISO 6892-1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV1)	ASTM E92
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV1)	EN ISO 6507-1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	ASTM E92
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	EN ISO 6507-1
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Vickers Hardness Test (HV10)	GOST 2999
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Stress (0.2% Proof Test)	ASTM A370
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Stress (1.0% Proof Test)	ASTM A370
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (V Notch) at (Ambient temperature to -90ºC & at -196ºC)	ASTM A370

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70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	0.2% Proof Test	ISO 6892-1
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	1.0% Proof Test	ISO 6892-1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Elongation	ASTM A370
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Elongation	ISO 6892-1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Flaring Test (2 to 150 mm OD & 0.1 to 15 mm THK) (Cone size: 60° and 74°)	ASTM B/SB338
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Flattening Test	ASTM B/SB338
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Reverse Flattening Test	ASTM A370
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Ultimate Tensile Strength	ASTM A370
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Ultimate Tensile Strength	ISO 6892-1

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79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Vickers Hardness Test (HV1)	ASTM E92
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Vickers Hardness Test (HV1)	EN ISO 6507-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Yield Stress (0.2% Proof Test)	ASTM A370
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium & Titanium Alloys	Yield Stress (1.0% Proof Test)	ASTM A370
83	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	16% Sulfuric Acid/Copper Sulfate Test (Strauss Test)	EN ISO 3651-2 (Method A)
84	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Copper–Copper Sulfate–Sulfuric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262 (Practice E)
85	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Copper-Copper Sulphate-16% Sulfuric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A763 (Practice Z)
86	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Determining Average Grain Size (Grain size: 1 to 10)	ASTM E112
87	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Ferric Chloride Corrosion Test for Classification of Structures of Duplex Stainless Steels	ASTM A923 (Method C)

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88	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Ferric Chloride Pitting Test	ASTM G48 (Method A)
89	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Ferric Sulfate-Sulfuric Acid Test	ASTM G28 (Method A)
90	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Ferric Sulfate-Sulfuric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262 (Practice B)
91	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Ferrite Content Measurement	ASTM A800/A800M
92	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Structure	ASM Handbook Vol.9
93	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Nitric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262 (Practice C)
94	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Oxalic Acid Etch Test for Classification of Etch Structures	ASTM A262 (Practice A)
95	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Oxalic Acid Etch Test for Detecting Susceptibility to Intergranular Attack	ASTM A763 (Practice W)
96	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Sodium Hydroxide Etch Test for Classification of Etch Structures of Duplex Stainless Steels	ASTM A923 (Method A)
97	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Volume Fraction (Systematic Manual Point Count)	ASTM E562