National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RATNAMANI METALS & TUBES LTD, QC LAB, CARBON STEEL PLANT, PLOT NO. 3306 TO 3309, GIDC ESTATE, PHASE IV, CHHATRAL, GANDHINAGAR, GUJARAT, 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- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Carbon (C)	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Molybdenum (Mo)	ASTM A751
3	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Aluminum (Al)	ASTM A751
4	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Aluminum (Al)	ASTM E 415
5	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Aluminum (Al)	IS 8811
6	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Boron (B)	ASTM A751
7	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Boron (B)	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Boron (B)	IS 8811
9	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Carbon (C)	ASTM A751
10	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Carbon (C)	IS 8811
11	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Chromium (Cr)	ASTM A751
12	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Chromium (Cr)	ASTM E 415
13	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Chromium (Cr)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Copper (Cu)	ASTM A751
15	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Copper (Cu)	ASTM E 415
16	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Copper (Cu)	IS 8811
17	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Manganese (Mn)	ASTM A751
18	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Manganese (Mn)	ASTM E 415

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19	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Manganese (Mn)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Molybdenum (Mo)	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Molybdenum (Mo)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Nickel (Ni)	ASTM A751
23	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Nickel (Ni)	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Nickel (Ni)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Niobium (Nb)	ASTM A751
26	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Niobium (Nb)	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Niobium (Nb)	IS 8811
28	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Nitrogen (N)	ASTM A751
29	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Nitrogen (N)	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Phosphorus (P)	ASTM A751
31	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Phosphorus (P)	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Phosphorus (P)	IS 8811
33	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Silicon (Si)	ASTM A751
34	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Silicon (Si)	ASTM E 415
35	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Silicon (Si)	IS 8811
36	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Sulphur (S)	ASTM A751
37	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Sulphur (S)	ASTM E 415

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38	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Sulphur (S)	IS 8811
39	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Titanium (Ti)	ASTM A751
40	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Titanium (Ti)	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Titanium (Ti)	IS 8811
42	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Vanadium (V)	ASTM A751
43	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Vanadium (V)	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Ferrous Metals (Carbon Steel / Low Alloy Steel) [Welded Pipes /Plates]	Vanadium (V)	IS 8811
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ASTM A370-97a
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASME Section-IIC
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASME Section-IX
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASTM A 370
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASTM A370-97a
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASTM E23-18
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ASTM E23-98
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Charpy Impact test (V Notch) at room temperature and temperature Up to -60 °C	ISO 148-1

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53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ASME Section-IIC
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ASME Section-IX
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ASTM A 370
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ASTM E190
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	IBR 1950 – Reg.3
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	IS 3589
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ISO 7438
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Guided Root Bend / Guided Face Bend / Guided Side Bend	ASTM A370-97a
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Material Bend	ASTM E 290
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Material Bend	IS 1599
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Rockwell Hardness Test	ASTM A370
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Rockwell Hardness Test	ISO 6508-1
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Rockwell Hardness Test	ISO 6508-2&3
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ASME Section-IIC

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67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ASME Section-IX
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ASTM A 370
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ASTM A370-97a
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ASTM E8/E8M - 16a
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	IS 1608 (Part 1)
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ISO 6892-1
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-% Elongation	ISO 6892-2
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ASME Section-IIC
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ASME Section-IX
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ASTM A 370
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ASTM A370-97a
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ASTM E8/E8M - 16a
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	IS 1608 (Part 1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ISO 6892-1

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81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Ultimate Tensile Strength	ISO 6892-2
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ASME Section-IIC
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ASME Section-IX
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ASTM A 370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ASTM E8/E8M - 16a
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	IS 1608 (Part 1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ISO 6892-1
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Strength (0.2% Proof stress)	ISO 6892-2
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ASTM A370-97a
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ASME Section-IIC
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ASME Section-IX
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ASTM A 370
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ASTM E8/E8M - 16a
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	IS 1608 (Part 1)

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95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ISO 6892-1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Tensile Test-Yield Stress (0.5% Extension Under Load)	ISO 6892-2
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ASTM A370
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ASTM A370
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ASTM E92
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ASTM E92
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ISO 6507(All Parts)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals (Carbon Steel /Low alloy steel/Welded Pipes/Plates)	Vickers Hardness Test	ISO 6507(All Parts)
103	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Manual, Contact method)	ASME Section V, Article 4
104	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Radiographic Testing (X-Rays, Film)	API 5L 46th Edition
105	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Radiographic Testing (X-Rays, Film)	ASME Sec. V, Article-2
106	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Radiographic Testing (X-Rays, Film)	ASTM E94
107	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Radiographic Testing (X-Rays, Film)	AWS D1.1
108	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Radiographic Testing (X-Rays, Film)	ISO 10893-6
109	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Real-Time Radiographic Testing (X-Ray)	API 5L 46th Edition
110	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Real-Time Radiographic Testing (X-Ray)	ASME Sec. V, Article-2

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111	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Real-Time Radiographic Testing (X-Ray)	ASTM E2698
112	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Real-Time Radiographic Testing (X-Ray)	AWS D1.1
113	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Real-Time Radiographic Testing (X-Ray)	ISO 10893-7
114	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Automated, Contact method)	ASME Section V, Article 4
115	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Automated, Contact method)	ASTM E273
116	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Manual, Contact method)	ASTM E 164
117	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Manual, Contact method)	ASTM E587
118	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Manual, Contact method)	AWS D1.1
119	NON-DESTRUCTIVE-METALS & ALLOYS	Metals and Alloys (Pipes)	Ultrasonic Testing (Manual, Contact method)	ISO 10893-11