

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Bunitech Metallurgical Services Pvt. Ltd.

C-120, Tulsi Estate & Plaza, Opposite Hotel Bhagyoday, Changodar,
Ahmedabad-382213, Gujarat, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2024/0057

Valid from: 31 May 2024

Valid until: 30 May 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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QAI/CIA/TL/2024/0057

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
1.	Aluminium & its alloys	Chromium	ASTM E 1251:2017
2.	Aluminium & its alloys	Copper	ASTM E 1251:2017
3.	Aluminium & its alloys	Iron	ASTM E 1251:2017
4.	Aluminium & its alloys	Magnesium	ASTM E 1251:2017
5.	Aluminium & its alloys	Manganese	ASTM E 1251:2017
6.	Aluminium & its alloys	Nickel	ASTM E 1251:2017
7.	Aluminium & its alloys	Silicon	ASTM E 1251:2017
8.	Aluminium & its alloys	Titanium	ASTM E 1251:2017
9.	Aluminium & its alloys	Vanadium	ASTM E 1251:2017
10.	Aluminium & its alloys	Zinc	ASTM E 1251:2017
11.	Ferrous material	Zirconium	IS 8811:1998
12.	Low alloy steel	Manganese	ASTM E 415:2021
13.	Low alloy steel	Molybdenum	JIS G 1253:2002
14.	Low alloy steel	Nickel	JIS G 1253:2002
15.	Low alloy steel	Nickel	IS 8811:1998
16.	Low alloy steel	Aluminium	IS 8811:1998
17.	Low alloy steel	Aluminium	ASTM E 415:2021
18.	Low alloy steel	Aluminium	JIS G 1253:2002
19.	Low alloy steel	Antimony	JIS G 1253:2002
20.	Low alloy steel	Antimony	ASTM E 415:2021
21.	Low alloy steel	Arsenic	IS 8811:1998
22.	Low alloy steel	Arsenic	ASTM E 415:2021
23.	Low alloy steel	Arsenic	JIS G 1253:2002
24.	Low alloy steel	Boron	JIS G 1253:2002
25.	Low alloy steel	Boron	ASTM E 415:2021
26.	Low alloy steel	Carbon	IS 8811:1998

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	Metal and Alloys		
27.	Low alloy steel	Carbon	ASTM E 415:2021
28.	Low alloy steel	Carbon	JIS G 1253:2002
29.	Low alloy steel	Chromium	JIS G 1253:2002
30.	Low alloy steel	Chromium	ASTM E 415:2021
31.	Low alloy steel	Chromium	IS 8811:1998
32.	Low alloy steel	Cobalt	IS 8811:1998
33.	Low alloy steel	Cobalt	ASTM E 415:2021
34.	Low alloy steel	Columbium (Niobium)	IS 8811:1998
35.	Low alloy steel	Columbium (Niobium)	ASTM E 415:2021
36.	Low alloy steel	Columbium (Niobium)	JIS G 1253:2002
37.	Low alloy steel	Copper	JIS G 1253:2002
38.	Low alloy steel	Copper	ASTM E 415:2021
39.	Low alloy steel	Copper	IS 8811: 1998
40.	Low alloy steel	Manganese	IS 8811:1998
41.	Low alloy steel	Manganese	JIS G 1253:2002
42.	Low alloy steel	Molybdenum	IS 8811:1998
43.	Low alloy steel	Molybdenum	ASTM E 415:2021
44.	Low alloy steel	Nickel	ASTM E 415:2021
45.	Low alloy steel	Nitrogen	ASTM E 415:2021
46.	Low alloy steel	Nitrogen	JIS G 1253:2002
47.	Low alloy steel	Phosphorus	JIS G 1253:2002
48.	Low alloy steel	Phosphorus	IS 8811:1998
49.	Low alloy steel	Phosphorus	ASTM E 415:2021
50.	Low alloy steel	Silicon	ASTM E 415:2021
51.	Low alloy steel	Silicon	IS 8811:1998
52.	Low alloy steel	Silicon	JIS G 1253:2002

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
53.	Low alloy steel	Sulphur	IS 8811:1998
54.	Low alloy steel	Sulphur	ASTM E 415:2021
55.	Low alloy steel	Sulphur	JIS G 1253:2002
56.	Low alloy steel	Tin	IS 8811:1998
57.	Low alloy steel	Tin	ASTM E 415:2021
58.	Low alloy steel	Titanium	ASTM E 415:2021
59.	Low alloy steel	Titanium	JIS G 1253:2002
60.	Low alloy steel	Titanium	IS 8811:1998
61.	Low alloy steel	Tungsten	JIS G 1253:2002
62.	Low alloy steel	Vanadium	JIS G 1253:2002
63.	Low alloy steel	Vanadium	ASTM E 415:2021
64.	Low alloy steel	Vanadium	IS 8811:1998
65.	Low alloy steel	Zirconium	ASTM E 415:2021
66.	Copper Base Alloys Brass/Bronze	Aluminium	BS EN 15079:2015
67.	Copper Base Alloys Brass/Bronze	Antimony	BS EN 15079:2015
68.	Copper Base Alloys Brass/Bronze	Arsenic	BS EN 15079:2015
69.	Copper Base Alloys Brass/Bronze	Bismuth	BS EN 15079:2015
70.	Copper Base Alloys Brass/Bronze	Cobalt	BS EN 15079:2015
71.	Copper Base Alloys Brass/Bronze	Iron	BS EN 15079:2015

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
72.	Copper Base Alloys Brass/Bronze	Lead	BS EN 15079:2015
73.	Copper Base Alloys Brass/Bronze	Manganese	BS EN 15079:2015
74.	Copper Base Alloys Brass/Bronze	Nickel	BS EN 15079:2015
75.	Copper Base Alloys Brass/Bronze	Phosphorous	BS EN 15079:2015
76.	Copper Base Alloys Brass/Bronze	Silicon	BS EN 15079:2015
77.	Copper Base Alloys Brass/Bronze	Sulfur	BS EN 15079:2015
78.	Copper Base Alloys Brass/Bronze	Tin	BS EN 15079:2015
79.	Copper Base Alloys Brass/Bronze	Zinc	BS EN 15079:2015
80.	Nickel base alloys	Columbium (Niobium)	ASTM E 3047:2022
81.	Nickel base alloys	Sulfur	ASTM E 3047:2022
82.	Nickel base alloys	Aluminium	ASTM E 3047:2022
83.	Nickel base alloys	Boron	ASTM E 3047:2022
84.	Nickel base alloys	Carbon	ASTM E 3047:2022
85.	Nickel base alloys	Chromium	ASTM E 3047:2022
86.	Nickel base alloys	Cobalt	ASTM E 3047:2022
87.	Nickel base alloys	Copper	ASTM E 3047:2022
88.	Nickel base alloys	Iron	ASTM E 3047:2022
89.	Nickel base alloys	Manganese	ASTM E 3047:2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
90.	Nickel base alloys	Molybdenum	ASTM E 3047:2022
91.	Nickel base alloys	Phosphorus	ASTM E 3047:2022
92.	Nickel base alloys	Silicon	ASTM E 3047:2022
93.	Nickel base alloys	Titanium	ASTM E 3047:2022
94.	Nickel base alloys	Tungsten	ASTM E 3047:2022
95.	Nickel base alloys	Vanadium	ASTM E 3047:2022
96.	Stainless steel	Aluminium	JIS G 1253:2002
97.	Stainless steel	Arsenic	JIS G 1253:2002
98.	Stainless steel	Boron	JIS G 1253:2002
99.	Stainless steel	Chromium	JIS G 1253:2002
100.	Stainless steel	Cobalt	JIS G 1253:2002
101.	Stainless steel	Columbium (Niobium)	JIS G 1253:2002
102.	Stainless steel	Copper	JIS G 1253:2002
103.	Stainless steel	Molybdenum	JIS G 1253:2002
104.	Stainless steel	Nickel	JIS G 1253:2002
105.	Stainless steel	Nitrogen	JIS G 1253:2002
106.	Stainless steel	Titanium	JIS G 1253:2002
107.	Stainless steel	Vanadium	JIS G 1253:2002
108.	Stainless steel	Aluminium	ASTM A 751:2021
109.	Stainless steel	Boron	ASTM A 751:2021
110.	Stainless steel	Carbon	IS 9879:1998
111.	Stainless steel	Carbon	ASTM E 1086:2022
112.	Stainless steel	Carbon	JIS G 1253:2002
113.	Stainless steel	Carbon	ASTM A 751:2021
114.	Stainless steel	Chromium	ASTM A 751:2021
115.	Stainless steel	Chromium	ASTM E 1086:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
116.	Stainless steel	Chromium	IS 9879:1998
117.	Stainless steel	Cobalt	ASTM A 751:2021
118.	Stainless steel	Copper	ASTM A 751:2021
119.	Stainless steel	Copper	IS 9879:1998
120.	Stainless steel	Copper	ASTM E 1086:2022
121.	Stainless steel	Manganese	IS 9879:1998
122.	Stainless steel	Manganese	ASTM A 751:2021
123.	Stainless steel	Manganese	JIS G 1253:2002
124.	Stainless steel	Manganese	ASTM E 1086:2022
125.	Stainless steel	Molybdenum	IS 9879:1998
126.	Stainless steel	Molybdenum	ASTM E 1086:2022
127.	Stainless steel	Molybdenum	ASTM A 751:2021
128.	Stainless steel	Nickel	IS 9879:1998
129.	Stainless steel	Nickel	ASTM E 1086:2022
130.	Stainless steel	Nickel	ASTM A 751:2021
131.	Stainless steel	Niobium	ASTM A 751:2021
132.	Stainless steel	Nitrogen	ASTM A 751:2021
133.	Stainless steel	Phosphorous	IS 9879:1998
134.	Stainless steel	Phosphorous	ASTME-1086:2022
135.	Stainless steel	Phosphorus	JIS G 1253:2002
136.	Stainless steel	Phosphorus	ASTM A 751:2021
137.	Stainless steel	Silicon	ASTM A 751:2021
138.	Stainless steel	Silicon	IS 9879:1998
139.	Stainless steel	Silicon	ASTME-1086:2022
140.	Stainless steel	Silicon	JIS G 1253:2002
141.	Stainless steel	Sulfur	ASTM E 1086:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
142.	Stainless steel	Sulfur	IS 9879:1998
143.	Stainless steel	Sulfur	JIS G 1253:2002
144.	Stainless steel	Sulfur	ASTM A 751:2021
145.	Stainless steel	Titanium	ASTM A 751:2021
146.	Stainless steel	Tungsten	ASTM A 751:2021
147.	Stainless steel	Tungsten	JIS G 1253:2002
148.	Stainless steel	Vanadium	ASTM A 751:2021
149.	Cast iron	Carbon	ASTM E 1999-2018
150.	Cast iron	Silicon	ASTM E 1999-2018
151.	Cast Iron	Manganese	ASTM E 1999-2018
152.	Cast Iron	Phosphorous	ASTM E 1999-2018
153.	Cast Iron	Sulfur	ASTM E 1999-2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Corrosion Test		
1.	Non-ferrous materials	Determination of dezincification	BS EN ISO 6509-1:2014
2.	Anodized products /Panels/Raw materials	Salt spray test	ISO 9227:2022
3.	Anodized products /Panels/Raw materials	Salt spray test	IS 9844: 2021
4.	Anodized products /Panels/Raw materials	Salt spray test	ASTM B117:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
1.	Metallic materials tubes	Flaring / drift expansion	EN ISO 8493:2004
2.	Metallic materials tubes	Flattening test	ISO 8492:2013
3.	Ferrous material	Mass per meter	IS 1786:2008
4.	Ferrous metallic fasteners	Proof load test	ISO 898-2:2022
5.	Ferrous metallic fasteners	Proof load test	ASTM A 370:2024
6.	Ferrous products	Tensile test at elevated temp. up to 1000°C “% Elongation”	ISO 6892-2:2018
7.	Ferrous products	Tensile Test at elevated temp. up to 1000°C “%Elongation”	ASTM E 21:2020
8.	Ferrous products	Tensile test at elevated temp. up to 1000°C “%Elongation”	IS 1608-2:2020
9.	Ferrous products	Tensile test at elevated temp. up to 1000°C “%Reduction of area”	ASTM E 21:2020
10.	Ferrous products	Tensile test at elevated temp. up to 1000°C “% Reduction of area”	IS 1608-2:2020
11.	Ferrous products	Tensile test at elevated temp. up to 1000°C “% Reduction of area”	ISO 6892-2:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
12.	Ferrous products	Tensile test at elevated temp. up to 1000°C ultimate tensile strength	ISO 6892-2:2018
13.	Ferrous products	Tensile test at elevated temp. up to 1000°C ultimate tensile strength	ASTM E 21:2020
14.	Ferrous products	Tensile test at elevated temp. up to 1000°C ultimate tensile strength	IS1608-2:2018
15.	Ferrous products	Tensile test at elevated temp. up to 1000°C "Yield strength"	ASTM E 21:2020
16.	Ferrous products	Tensile test at elevated temp. up to 1000°C "Yield strength"	ISO 6892-2:2018
17.	Ferrous products	Tensile test at elevated temp. up to 1000°C "Yield strength"	IS 1608-2:2018
18.	Metallic fasteners	Proof load test	ISO 3506-2:2020
19.	Metallic fasteners	Proof load test	ASTM A194/A194M:2023
20.	Metallic fasteners	Proof load test	IS 1367 (Part-6): 2018
21.	Metallic material	Cupping test	ASTM E643:2015
22.	Metallic material	Erichsen cupping test	ISO 20482:2013
23.	Metallic material	Erichsen cupping test	IS 10175:2018
24.	Metallic material	Flattening test	IS 2328:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
25.	Metallic materials	Bend test	ISO 7438:2020
26.	Metallic materials	Coating adhesion test	IS 15961:2012
27.	Metallic materials	Tensile test at elevated temp. up to 1000°C "0.2% proof strength"	IS 1608-2:2020
28.	Metallic materials	Tensile test at elevated temp. up to 1000°C "0.2% proof strength"	ASTM E 21:2020
29.	Metallic materials	Tensile test at elevated temp. up to 1000°C "0.2% proof strength"	ISO 6892-2:2018
30.	Steel pipe/tubes	Flattening	ASTM A 370:2024
31.	Reinforcement steel bar & wires	Bend test	IS 1786:2008
32.	Reinforcement steel bar & wires	Re-bend Test	IS 1786:2008
33.	Metallic & non-metallic coatings	Cross hatch adhesion test	ASTM D 3359:2023
34.	Ferrous & non-ferrous material	% Elongation	ASTM E8/E8M:2024
35.	Ferrous & non-ferrous material	% Elongation	IS 1608 Part-1:2022
36.	Ferrous & non-ferrous material	% Elongation	ISO 6892 Part-1: 2019
37.	Ferrous & non-ferrous material	% Elongation	JIS Z 2241:2022
38.	Ferrous & non-ferrous material	Bend	ASTM E 290:2022
39.	Ferrous & non-ferrous material	Bend	IS 1599:2023
40.	Ferrous & non-ferrous material	Brinell hardness test (10 mm @ 3000 kg)	ISO 6506-1:2014
41.	Ferrous & non-ferrous material	Brinell hardness test (10 mm @ 3000 kg)	IS1500 (Part-1):2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
42.	Ferrous & non-ferrous material	Brinell hardness test (10 mm @ 3000 kg)	ASTM E10:2023
43.	Ferrous & non-ferrous material	Brinell hardness test (5mm@750kg)	ISO 6506-1:2014
44.	Ferrous & non-ferrous material	Brinell hardness test (5mm@750kg)	IS 1500 (Part1) :2019
45.	Ferrous & non-ferrous material	Brinell hardness test (5mm@750kg)	ASTM E10:2023
46.	Ferrous & non-ferrous material	Hardness HBW (UCI)	ASTM A1038:2019
47.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.1)	ASTM E384:2022
48.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.1)	ASTM E92:2017
49.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.1)	IS 1501 (Part-1): 2020
50.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.1)	ISO 9015-2:2016
51.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.1)	ISO 6507-1:2018
52.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.3)	ASTM E384:2022
53.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.3)	ASTM E92:2017
54.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.3)	IS 1501 (Part-1): 2020
55.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.3)	ISO 6507-1:2018
56.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.3)	ISO 9015-2:2016
57.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.5)	ASTM E384:2022
58.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.5)	ASTM E92:2017
59.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.5)	IS 1501 (Part-1): 2020
60.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.5)	ISO 6507-1:2018
61.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 0.5)	ISO 9015-2:2016
62.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 1)	ASTM E384:2022

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	Mechanical properties of metal		
63.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 1)	ASTM E92:2017
64.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 1)	IS 1501 (Part-1): 2020
65.	Ferrous & non-ferrous material	Micro Vicker's hardness (HV 1)	ISO 6507-1:2018
66.	Ferrous & non-ferrous material	Micro Vicker's Hardness (HV 1)	ISO 9015-2:2016
67.	Ferrous & non-ferrous material	Proof Strength (0.2%, 0.5%, 1.0% of set)	IS 1608 Part-1:2022
68.	Ferrous & non-ferrous material	Proof Strength (0.2%, 0.5%, 1.0% of set)	ISO 6892 Part-1: 2019
69.	Ferrous & non-ferrous material	Proof Strength (0.2%, 0.5%, 1.0% of set)	JIS Z 2241:2022
70.	Ferrous & non-ferrous material	Proof Strength (0.2%, 0.5%, 1.0% of set)	ASTM E8/E8M:2024
71.	Ferrous & non-ferrous material	Reduction of area	JIS Z 2241:2022
72.	Ferrous & non-ferrous material	Reduction of area	ASTM E8/E8M:2024
73.	Ferrous & non-ferrous material	Reduction of area	IS 1608 Part-1:2022
74.	Ferrous & non-ferrous material	Reduction of area	ISO 6892 Part1: 2019
75.	Ferrous & non-ferrous material	Rockwell hardness test (B Scale)	ASTM A 370:2024
76.	Ferrous & non-ferrous material	Rockwell hardness test (B Scale)	ISO6508-1:2016
77.	Ferrous & non-ferrous material	Rockwell hardness test (B Scale)	ASTME18:2022
78.	Ferrous & non-ferrous material	Rockwell hardness test (B Scale)	IS 1586 (Part-1):2018
79.	Ferrous & non-ferrous material	Ultimate tensile strength	ASTM E8/E8M:2024
80.	Ferrous & non-ferrous material	Ultimate tensile strength	IS 1608 Part-1:2022
81.	Ferrous & non-ferrous material	Ultimate tensile strength	ISO 6892 Part-1: 2019
82.	Ferrous & non-ferrous material	Ultimate tensile strength	JIS Z 2241:2022

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QAI/CIA/TL/2024/0057

Valid from: 31 May 2024

Valid until: 30 May 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
83.	Ferrous & non-ferrous material	Vickers hardness test (HV10)	IS 1501 (Part-1): 2020
84.	Ferrous & non-ferrous material	Vickers hardness test (HV10)	ASTM E92:2017
85.	Ferrous & non-ferrous material	Vickers hardness test (HV10)	ISO 6507-1:2018
86.	Ferrous & non-ferrous material	Yield strength	ASTM E8/E8M:2024
87.	Ferrous & non-ferrous material	Yield strength	IS 1608 Part-1:2022
88.	Ferrous & non-ferrous material	Yield strength	ISO 6892 Part-1: 2019
89.	Ferrous & non-ferrous material	Yield strength	JIS Z 2241:2022
90.	Ferrous & non-ferrous pipe/tube	Flaring/ drift expansion	IS 2335:2005
91.	Ferrous & non-ferrous metallic pipe/tube	Flanging test	ASTM A1016:2023
92.	Ferrous material	Rockwell hardness test (C scale)	ISO 6508-1:2016
93.	Ferrous material	Rockwell hardness test (C scale)	ASTM A 370:2024
94.	Ferrous material	Rockwell hardness test (C scale)	ASTM E18:2022
95.	Ferrous material	Rockwell hardness test (C scale)	IS 1586 (Part-1): 2018
96.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	IS 1757 (Part-1): 2022
97.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ISO 148-1:2016
98.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ASTM E23:2023
99.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ASM E Sec IX:2023
100.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	AWSD1.1:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
101.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	IS 3600 (Part-2): 2022
102.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ISO 9016:2022
103.	Metallic materials	Bend test	ISO 5173:2023
104.	Metallic materials (Tubes)	Bend test	ISO 8491:2004
105.	Non-ferrous material	% Elongation	ASTM B557M:2023
106.	Non-ferrous material	Proof strength (0.2%, 0.5%, 1.0% of set)	ASTM B557M:2023
107.	Non-ferrous material	Reduction of area	ASTM B557M:2023
108.	Non-ferrous material	Ultimate tensile strength	ASTM B557M:2023
109.	Non-ferrous material	Yield strength	ASTM B557M:2023
110.	Steel products	% Elongation	ASTM A 370:2024
111.	Steel products	Proof strength (0.2%, 0.5%, 1.0% of set)	ASTM A 370:2024
112.	Steel products	Reduction of area	ASTM A 370:2024
113.	Steel products	Ultimate tensile strength	ASTM A 370:2024
114.	Steel products	Yield strength	ASTM A 370:2024
115.	Welded products	Ultimate tensile strength	ISO 4136:2022
116.	Welded products	Ultimate tensile strength	IS 3600 (Part-1): 2022
117.	Welded products	Ultimate tensile strength	AWSD1.1:2020
118.	Welded products	Ultimate tensile strength	ISO 5178:2019
119.	Welded products	Ultimate tensile strength	IS 3600 (Part-3): 2018
120.	Welded products	Ultimate tensile strength	IS 7307 (Part-1): 2014
121.	Welded products	Ultimate tensile strength	API 1104:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical properties of metal		
122.	Welded products	Ultimate tensile strength	ASME Sec.IX:2023
123.	Ferrous & non-ferrous material	Bend test	ISO 15614-1:2017
124.	Ferrous materials	Bend test	IS 7310 (Part-1): 2019
125.	Steel products	Bend test	IS 3600 (Part-5): 2018
126.	Steel products	Bend test	IS 3600 (Part-7): 1985
127.	Steel products	Bend test	IS 7307 (Part-1): 1974
128.	Steel products	Bend test	ISO 9606-1:2012
129.	Welded ferrous and non-ferrous metals	Bend test	AWS D1.1:2020
130.	Welding pipeline	Bend test	API 1104:2021
131.	Welding pipeline	Nick break test	API 1104:2021
132.	Welding pipeline	Macro structure examination	API 1104:2021
133.	Welds & welded test specimen	Bend	ASTM E190:2021
134.	Welds & welded test specimen	Bend	ASM E BVPC section IX:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
1.	Copper alloys	Mercurous nitrate	ASTM B154:2022
2.	Copper alloys	Mercurous nitrate test	IS 2305:1998
3.	Austenitic SS	IGC Test A	ASTM A262:2021
4.	Austenitic SS	IGC Test B	ASTM A262:2021
5.	Austenitic SS	IGC Test C	ASTM A262:2021
6.	Austenitic SS	IGC Test E	ASTM A262:2021
7.	Austenitic SS	IGC Test F	ASTM A262:2021
8.	Austenitic, ferritic and duplex SS	Corrosion test of duplex SS- method C of A 923	ASTM A923:2023
9.	Austenitic, ferritic and duplex SS	Pitting corrosion test	ASTM G48 (Method A & B):2020
10.	Austenitic, ferritic and duplex SS	Resistance to intergranular corrosion of SS	ISO 3651-2:1998
11.	Austenitic, ferritic and duplex SS	Resistance to intergranular corrosion of SS	ISO 3651-1:1998
12.	Cast iron products	Nodularity and nodule count in ductile iron	ASTM A247:2019
13.	Ferritic SS	IGC Test W	ASTM A763:2021
14.	Ferritic SS	IGC Test X	ASTM A763:2021
15.	Ferritic SS	IGC Test Y	ASTM A763:2021
16.	Ferritic SS	IGC Test Z	ASTM A763:2021
17.	Ferrous material	Coating thickness	ASTM B499:2021
18.	Ferrous material	Volume fraction	ASTM E1245:2016
19.	Ferrous material	Adhesion pull-of strength	ASTM D4541 (Method E):2022
20.	Ferrous material	Coating thickness	IS 12860:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
21.	Ferrous material	Coating thickness (magnetic method)	IS 3203:2021
22.	Ferrous material	Grain size	IS 4748:2009
23.	Ferrous material	Inclusion rating	JIS G0555:2020
24.	Ferrous material	Mass of coating test	IS 6745:1990
25.	Ferrous material	Mass of coating test	ASTM A90:2021
26.	Ferrous material	Microstructure of ferritic/austenitic (duplex) stainless steels	ISO 17781:2017
27.	Ferrous material	Stress corrosion cracking resistance (MgCl ₂ and CaCl ₂)	ASTM G36:2018
28.	Ferrous metallic material	% Nodularity in SG Iron, nodule count, nodules size & type, flakes type and size	IS 7754:1975 (RA 2018)
29.	Ferrous metallic material	% Nodularity in SG iron, nodule count, nodules size & type, flakes type and size	ASTM E2567:2016
30.	Ferrous metallic material	Decarburization depth (by microscopic)	IS 6396:2000
31.	Ferrous metallic material	Decarburization depth (by microscopic)	ASTM E1077:2021
32.	Ferrous metallic material	Grain size measurement (comparison method)	ASTM E112:2013
33.	Ferrous metallic material	Inclusion Rating	ISO 4967:2013
34.	Ferrous metallic material	Inclusion Rating	IS 4163:2021
35.	Ferrous metallic material	Inclusion Rating	ASTM E45:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
36.	Ferrous metallic material	Thickness of coating (by microscopic)	ASTM B487:2020
37.	Ferrous metallic material	Volume fraction	ASTM E562:2019
38.	Ferrous stainless steel and duplex material	Micro structure examination	ASTM A923 method A:2014
39.	Hardened metallic material	Case depth (by microscopic)	IS 6416:2003
40.	metallic Material	Hydrogen induced cracking test	NACE TM0284:2016
41.	Stainless steel casting, austenitic alloys, duplex (ferritic/austenite stainless steel and austenitic & duplex weld metals)	Ferrite number (FN) measurement	BS EN ISO 8249:2018
42.	Steel bars, blooms & billets	Macro etch	ASTM E381:2022
43.	Steel products	Macro examination	IS 11371:2022
44.	Zinc coating on metallic Surface	Uniformity test of zinc coating	IS 2633:1986
45.	Nonferrous metallic material	Grain size measurement (comparison method)	ASTM E112:2013
46.	Wrought, nickel-rich, chromium bearing alloys	Susceptibility to intergranular corrosion method A	ASTM G28:2015
47.	Cast iron material	Microstructure of graphite in cast iron	IS 7754:1975
48.	Ferrous and non-ferrous metallic material	Macro etch	ASTM E340:2015
49.	Ferrous and non-ferrous metallic material	Microstructural analysis	ASM Handbook Vol 9:2015

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
50.	Super duplex stainless steel & duplex stainless steel, stainless steel, ferrous metal and its alloys	Sulphide stress cracking & stress corrosion cracking-Method A	NACE TM0177:2016
51.	Super duplex stainless steel & duplex stainless steel, stainless steel, ferrous metals and its alloys	Sulphide stress cracking & stress corrosion cracking-Method A,	NACE TM0177:2016
52.	Welded material-tube to tube plate joint	Macro structure examination	ISO 17639:2022
53.	Metallic materials	Macro examination	IS 3600 (Part 9):2022
54.	Steel products	Macro examination	IS 7318 Part 1:1974
55.	Steel products	Macro examination	IS 7307 (Part 1):2019
56.	Steels products	Macro examination	IS 7310 Part 1:2019
57.	Welded ferrous and non-ferrous metals	Macro structure	AWSD1.1:2020
58.	Metallic material	Inclusion rating	DIN 50602:1985

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