

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Bunitech Metallurgical Services Private Limited

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

(Date of First Accreditation: 31 May 2024 - 30 May 2026)

Valid from: 31 May 2026

Valid until: 30 May 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Scope of Accreditation

Bunitech Metallurgical Services Private Limited

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QAI/CIA/TL/2024/0057

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Valid until: 30 May 2028

Accreditation Standard: ISO/IEC 17025:2017

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: 1981(Reaffirmed Year: 2021)
4.	Anodized products /Panels/Raw materials	Salt spray test	ASTM B117:2026



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
1.	Carbon Steel (Low, Medium & High)	Aluminum	ASTM E415-21
2.	Carbon Steel (Low, Medium & High)	Antimony	ASTM E415-21
3.	Carbon Steel (Low, Medium & High)	Arsenic	ASTM E415-21
4.	Carbon Steel (Low, Medium & High)	Boron	ASTM E415-21
5.	Carbon Steel (Low, Medium & High)	Calcium	ASTM E415-21
6.	Carbon Steel (Low, Medium & High)	Carbon	ASTM E415-21
7.	Carbon Steel (Low, Medium & High)	Chromium	ASTM E415-21
8.	Carbon Steel (Low, Medium & High)	Cobalt	ASTM E415-21
9.	Carbon Steel (Low, Medium & High)	Copper	ASTM E415-21
10.	Carbon Steel (Low, Medium & High)	Lead	ASTM E415-21
11.	Carbon Steel (Low, Medium & High)	Manganese	ASTM E415-21
12.	Carbon Steel (Low, Medium & High)	Molybdenum	ASTM E415-21

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
13.	Carbon Steel (Low, Medium & High)	Nickel	ASTM E415-21
14.	Carbon Steel (Low, Medium & High)	Niobium	ASTM E415-21
15.	Carbon Steel (Low, Medium & High)	Nitrogen	ASTM E415-21
16.	Carbon Steel (Low, Medium & High)	Phosphorous	ASTM E415-21
17.	Carbon Steel (Low, Medium & High)	Silicon	ASTM E415-21
18.	Carbon Steel (Low, Medium & High)	Sulphur	ASTM E415-21
19.	Carbon Steel (Low, Medium & High)	Tin	ASTM E415-21
20.	Carbon Steel (Low, Medium & High)	Titanium	ASTM E415-21
21.	Carbon Steel (Low, Medium & High)	Vanadium	ASTM E415-21
22.	Carbon Steel (Low, Medium & High)	Zirconium	ASTM E415-21
23.	Carbon Steel (Low, Medium & High)	Aluminum	IS 8811: 1998 (Reaffirmed 2018)
24.	Carbon Steel (Low, Medium & High)	Arsenic	IS 8811: 1998 (Reaffirmed 2018)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
25.	Carbon Steel (Low, Medium & High)	Boron	IS 8811: 1998 (Reaffirmed 2018)
26.	Carbon Steel (Low, Medium & High)	Carbon	IS 8811: 1998 (Reaffirmed 2018)
27.	Carbon Steel (Low, Medium & High)	Chromium	IS 8811: 1998 (Reaffirmed 2018)
28.	Carbon Steel (Low, Medium & High)	Cobalt	IS 8811: 1998 (Reaffirmed 2018)
29.	Carbon Steel (Low, Medium & High)	Copper	IS 8811: 1998 (Reaffirmed 2018)
30.	Carbon Steel (Low, Medium & High)	Manganese	IS 8811: 1998 (Reaffirmed 2018)
31.	Carbon Steel (Low, Medium & High)	Molybdenum	IS 8811: 1998 (Reaffirmed 2018)
32.	Carbon Steel (Low, Medium & High)	Nickel	IS 8811: 1998 (Reaffirmed 2018)
33.	Carbon Steel (Low, Medium & High)	Niobium	IS 8811: 1998 (Reaffirmed 2018)
34.	Carbon Steel (Low, Medium & High)	Phosphorous	IS 8811: 1998 (Reaffirmed 2018)
35.	Carbon Steel (Low, Medium & High)	Silicon	IS 8811: 1998 (Reaffirmed 2018)
36.	Carbon Steel (Low, Medium & High)	Sulphur	IS 8811: 1998 (Reaffirmed 2018)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
37.	Carbon Steel (Low, Medium & High)	Tin	IS 8811: 1998 (Reaffirmed 2018)
38.	Carbon Steel (Low, Medium & High)	Titanium	IS 8811: 1998 (Reaffirmed 2018)
39.	Carbon Steel (Low, Medium & High)	Vanadium	IS 8811: 1998 (Reaffirmed 2018)
40.	Carbon Steel (Low, Medium & High)	Zirconium	IS 8811: 1998 (Reaffirmed 2018)
41.	Carbon Steel (Low, Medium & High)	Carbon	JIS G 1253:2002/AMENDMENT 1:2013
42.	Carbon Steel (Low, Medium & High)	Silicon	JIS G 1253:2002/AMENDMENT 1:2013
43.	Carbon Steel (Low, Medium & High)	Manganese	JIS G 1253:2002/AMENDMENT 1:2013
44.	Carbon Steel (Low, Medium & High)	Phosphorous	JIS G 1253:2002/AMENDMENT 1:2013
45.	Carbon Steel (Low, Medium & High)	Sulphur	JIS G 1253:2002/AMENDMENT 1:2013
46.	Carbon Steel (Low, Medium & High)	Nickel	JIS G 1253:2002/AMENDMENT 1:2013
47.	Carbon Steel (Low, Medium & High)	Chromium	JIS G 1253:2002/AMENDMENT 1:2013
48.	Carbon Steel (Low, Medium & High)	Molybdenum	JIS G 1253:2002/AMENDMENT 1:2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
49.	Carbon Steel (Low, Medium & High)	Copper	JIS G 1253:2002/AMENDMENT 1:2013
50.	Carbon Steel (Low, Medium & High)	Tungsten	JIS G 1253:2002/AMENDMENT 1:2013
51.	Carbon Steel (Low, Medium & High)	Vanadium	JIS G 1253:2002/AMENDMENT 1:2013
52.	Carbon Steel (Low, Medium & High)	Cobalt	JIS G 1253:2002/AMENDMENT 1:2013
53.	Carbon Steel (Low, Medium & High)	Titanium	JIS G 1253:2002/AMENDMENT 1:2013
54.	Carbon Steel (Low, Medium & High)	Aluminum	JIS G 1253:2002/AMENDMENT 1:2013
55.	Carbon Steel (Low, Medium & High)	Arsenic	JIS G 1253:2002/AMENDMENT 1:2013
56.	Carbon Steel (Low, Medium & High)	Tin	JIS G 1253:2002/AMENDMENT 1:2013
57.	Carbon Steel (Low, Medium & High)	Boron	JIS G 1253:2002/AMENDMENT 1:2013
58.	Carbon Steel (Low, Medium & High)	Nitrogen	JIS G 1253:2002/AMENDMENT 1:2013
59.	Carbon Steel (Low, Medium & High)	Lead	JIS G 1253:2002/AMENDMENT 1:2013
60.	Carbon Steel (Low, Medium & High)	Zirconium	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
61.	Carbon Steel (Low, Medium & High)	Niobium	JIS G 1253:2002/AMENDMENT 1:2013
62.	Carbon Steel (Low, Medium & High)	Magnesium	JIS G 1253:2002/AMENDMENT 1:2013
63.	Carbon Steel (Low, Medium & High)	Calcium	JIS G 1253:2002/AMENDMENT 1:2013
64.	Carbon Steel (Low, Medium & High)	Tantalum	JIS G 1253:2002/AMENDMENT 1:2013
65.	Carbon Steel (Low, Medium & High)	Antimony	JIS G 1253:2002/AMENDMENT 1:2013
66.	Carbon Steel (Low, Medium & High)	Selenium	JIS G 1253:2002/AMENDMENT 1:2013
67.	Carbon Steel (Low, Medium & High)	Tellurium	JIS G 1253:2002/AMENDMENT 1:2013
68.	Carbon Steel (Low, Medium & High)	Lanthanum	JIS G 1253:2002/AMENDMENT 1:2013
69.	Carbon Steel (Low, Medium & High)	Cerium	JIS G 1253:2002/AMENDMENT 1:2013
70.	High Alloy Steel	Carbon	JIS G 1253:2002/AMENDMENT 1:2013
71.	High Alloy Steel	Silicon	JIS G 1253:2002/AMENDMENT 1:2013
72.	High Alloy Steel	Manganese	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
73.	High Alloy Steel	Phosphorous	JIS G 1253:2002/AMENDMENT 1:2013
74.	High Alloy Steel	Sulphur	JIS G 1253:2002/AMENDMENT 1:2013
75.	High Alloy Steel	Nickel	JIS G 1253:2002/AMENDMENT 1:2013
76.	High Alloy Steel	Chromium	JIS G 1253:2002/AMENDMENT 1:2013
77.	High Alloy Steel	Molybdenum	JIS G 1253:2002/AMENDMENT 1:2013
78.	High Alloy Steel	Copper	JIS G 1253:2002/AMENDMENT 1:2013
79.	High Alloy Steel	Tungsten	JIS G 1253:2002/AMENDMENT 1:2013
80.	High Alloy Steel	Vanadium	JIS G 1253:2002/AMENDMENT 1:2013
81.	High Alloy Steel	Cobalt	JIS G 1253:2002/AMENDMENT 1:2013
82.	High Alloy Steel	Titanium	JIS G 1253:2002/AMENDMENT 1:2013
83.	High Alloy Steel	Aluminum	JIS G 1253:2002/AMENDMENT 1:2013
84.	High Alloy Steel	Arsenic	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
85.	High Alloy Steel	Tin	JIS G 1253:2002/AMENDMENT 1:2013
86.	High Alloy Steel	Boron	JIS G 1253:2002/AMENDMENT 1:2013
87.	High Alloy Steel	Nitrogen	JIS G 1253:2002/AMENDMENT 1:2013
88.	High Alloy Steel	Lead	JIS G 1253:2002/AMENDMENT 1:2013
89.	High Alloy Steel	Zirconium	JIS G 1253:2002/AMENDMENT 1:2013
90.	High Alloy Steel	Niobium	JIS G 1253:2002/AMENDMENT 1:2013
91.	High Alloy Steel	Magnesium	JIS G 1253:2002/AMENDMENT 1:2013
92.	High Alloy Steel	Calcium	JIS G 1253:2002/AMENDMENT 1:2013
93.	High Alloy Steel	Tantalum	JIS G 1253:2002/AMENDMENT 1:2013
94.	High Alloy Steel	Antimony	JIS G 1253:2002/AMENDMENT 1:2013
95.	High Alloy Steel	Selenium	JIS G 1253:2002/AMENDMENT 1:2013
96.	High Alloy Steel	Tellurium	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
97.	High Alloy Steel	Lanthanum	JIS G 1253:2002/AMENDMENT 1:2013
98.	High Alloy Steel	Cerium	JIS G 1253:2002/AMENDMENT 1:2013
99.	Stainless Steel	Carbon	JIS G 1253:2002/AMENDMENT 1:2013
100.	Stainless Steel	Silicon	JIS G 1253:2002/AMENDMENT 1:2013
101.	Stainless Steel	Manganese	JIS G 1253:2002/AMENDMENT 1:2013
102.	Stainless Steel	Phosphorous	JIS G 1253:2002/AMENDMENT 1:2013
103.	Stainless Steel	Sulphur	JIS G 1253:2002/AMENDMENT 1:2013
104.	Stainless Steel	Nickel	JIS G 1253:2002/AMENDMENT 1:2013
105.	Stainless Steel	Chromium	JIS G 1253:2002/AMENDMENT 1:2013
106.	Stainless Steel	Molybdenum	JIS G 1253:2002/AMENDMENT 1:2013
107.	Stainless Steel	Copper	JIS G 1253:2002/AMENDMENT 1:2013
108.	Stainless Steel	Tungsten	JIS G 1253:2002/AMENDMENT 1:2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
109.	Stainless Steel	Vanadium	JIS G 1253:2002/AMENDMENT 1:2013
110.	Stainless Steel	Cobalt	JIS G 1253:2002/AMENDMENT 1:2013
111.	Stainless Steel	Titanium	JIS G 1253:2002/AMENDMENT 1:2013
112.	Stainless Steel	Aluminum	JIS G 1253:2002/AMENDMENT 1:2013
113.	Stainless Steel	Arsenic	JIS G 1253:2002/AMENDMENT 1:2013
114.	Stainless Steel	Tin	JIS G 1253:2002/AMENDMENT 1:2013
115.	Stainless Steel	Boron	JIS G 1253:2002/AMENDMENT 1:2013
116.	Stainless Steel	Nitrogen	JIS G 1253:2002/AMENDMENT 1:2013
117.	Stainless Steel	Lead	JIS G 1253:2002/AMENDMENT 1:2013
118.	Stainless Steel	Zirconium	JIS G 1253:2002/AMENDMENT 1:2013
119.	Stainless Steel	Niobium	JIS G 1253:2002/AMENDMENT 1:2013
120.	Stainless Steel	Magnesium	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
121.	Stainless Steel	Calcium	JIS G 1253:2002/AMENDMENT 1:2013
122.	Stainless Steel	Tantalum	JIS G 1253:2002/AMENDMENT 1:2013
123.	Stainless Steel	Antimony	JIS G 1253:2002/AMENDMENT 1:2013
124.	Stainless Steel	Selenium	JIS G 1253:2002/AMENDMENT 1:2013
125.	Stainless Steel	Tellurium	JIS G 1253:2002/AMENDMENT 1:2013
126.	Stainless Steel	Lanthanum	JIS G 1253:2002/AMENDMENT 1:2013
127.	Stainless Steel	Cerium	JIS G 1253:2002/AMENDMENT 1:2013
128.	Stainless Steel	Chromium	ASTM E1086-22
129.	Stainless Steel	Nickel	ASTM E1086-22
130.	Stainless Steel	Molybdenum	ASTM E1086-22
131.	Stainless Steel	Manganese	ASTM E1086-22
132.	Stainless Steel	Silicon	ASTM E1086-22
133.	Stainless Steel	Copper	ASTM E1086-22

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
134.	Stainless Steel	Carbon	ASTM E1086-22
135.	Stainless Steel	Phosphorous	ASTM E1086-22
136.	Stainless Steel	Sulphur	ASTM E1086-22
137.	Stainless Steel	Carbon	IS 9879:1998 (Reaffirmed Year:2021)
138.	Stainless Steel	Chromium	IS 9879:1998 (Reaffirmed Year:2021)
139.	Stainless Steel	Copper	IS 9879:1998 (Reaffirmed Year:2021)
140.	Stainless Steel	Manganese	IS 9879:1998 (Reaffirmed Year:2021)
141.	Stainless Steel	Molybdenum	IS 9879:1998 (Reaffirmed Year:2021)
142.	Stainless Steel	Nickel	IS 9879:1998 (Reaffirmed Year:2021)
143.	Stainless Steel	Phosphorous	IS 9879:19(Reaffirmed Year :2021)
144.	Stainless Steel	Silicon	IS 9879:1998 (Reaffirmed Year:2021)
145.	Stainless Steel	Sulphur	IS 9879:1998 (Reaffirmed Year:2021)
146.	Nickel base alloys	Aluminum	ASTM E3047-22
147.	Nickel base alloys	Boron	ASTM E3047-22
148.	Nickel base alloys	Carbon	ASTM E3047-22
149.	Nickel base alloys	Chromium	ASTM E3047-22

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
150.	Nickel base alloys	Copper	ASTM E3047-22
151.	Nickel base alloys	Cobalt	ASTM E3047-22
152.	Nickel base alloys	Iron	ASTM E3047-22
153.	Nickel base alloys	Magnesium	ASTM E3047-22
154.	Nickel base alloys	Manganese	ASTM E3047-22
155.	Nickel base alloys	Molybdenum	ASTM E3047-22
156.	Nickel base alloys	Niobium	ASTM E3047-22
157.	Nickel base alloys	Nickel	ASTM E3047-22
158.	Nickel base alloys	Phosphorous	ASTM E3047-22
159.	Nickel base alloys	Silicon	ASTM E3047-22
160.	Nickel base alloys	Sulphur	ASTM E3047-22
161.	Nickel base alloys	Titanium	ASTM E3047-22
162.	Nickel base alloys	Tantalum	ASTM E3047-22
163.	Nickel base alloys	Tin	ASTM E3047-22
164.	Nickel base alloys	Tungsten	ASTM E3047-22
165.	Nickel base alloys	Vanadium	ASTM E3047-22
166.	Nickel base alloys	Zirconium	ASTM E3047-22

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
167.	Aluminum & its Alloys	Beryllium	ASTM E1251-25
168.	Aluminum & its Alloys	Bismuth	ASTM E1251-25
169.	Aluminum & its Alloys	Boron	ASTM E1251-25
170.	Aluminum & its Alloys	Calcium	ASTM E1251-25
171.	Aluminum & its Alloys	Chromium	ASTM E1251-25
172.	Aluminum & its Alloys	Cobalt	ASTM E1251-25
173.	Aluminum & its Alloys	Copper	ASTM E1251-25
174.	Aluminum & its Alloys	Gallium	ASTM E1251-25
175.	Aluminum & its Alloys	Iron	ASTM E1251-25
176.	Aluminum & its Alloys	Lead	ASTM E1251-25
177.	Aluminum & its Alloys	Lithium	ASTM E1251-25
178.	Aluminum & its Alloys	Magnesium	ASTM E1251-25
179.	Aluminum & its Alloys	Manganese	ASTM E1251-25
180.	Aluminum & its Alloys	Nickel	ASTM E1251-25
181.	Aluminum & its Alloys	Phosphorous	ASTM E1251-25
182.	Aluminum & its Alloys	Silicon	ASTM E1251-25
183.	Aluminum & its Alloys	Sodium	ASTM E1251-25

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

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		
184.	Aluminum & its Alloys	Strontium	ASTM E1251-25
185.	Aluminum & its Alloys	Tin	ASTM E1251-25
186.	Aluminum & its Alloys	Titanium	ASTM E1251-25
187.	Aluminum & its Alloys	Vanadium	ASTM E1251-25
188.	Aluminum & its Alloys	Zinc	ASTM E1251-25
189.	Aluminum & its Alloys	Zirconium	ASTM E1251-25
190.	Aluminum & its Alloys	Copper	IS 11035:1984 (Reaffirmed Year: 2019)
191.	Aluminum & its Alloys	Magnesium	IS 11035:1984 (Reaffirmed Year: 2019)
192.	Aluminum & its Alloys	Silicon	IS 11035:1984 (Reaffirmed Year: 2019)
193.	Aluminum & its Alloys	Iron	IS 11035:1984 (Reaffirmed Year: 2019)
194.	Aluminum & its Alloys	Manganese	IS 11035:1984 (Reaffirmed Year: 2019)
195.	Aluminum & its Alloys	Zinc	IS 11035:1984 (Reaffirmed Year: 2019)
196.	Aluminum & its Alloys	Chromium	IS 11035:1984 (Reaffirmed Year: 2019)
197.	Aluminum & its Alloys	Titanium	IS 11035:1984(Reaffirmed Year: 2019)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
198.	Copper base Alloys Brass/Bronze	Silver	BS EN 15079:2015
199.	Copper base Alloys Brass/Bronze	Aluminum	BS EN 15079:2015
200.	Copper base Alloys Brass/Bronze	Arsenic	BS EN 15079:2015
201.	Copper base Alloys Brass/Bronze	Boron	BS EN 15079:2015
202.	Copper base Alloys Brass/Bronze	Beryllium	BS EN 15079:2015
203.	Copper base Alloys Brass/Bronze	Bismuth	BS EN 15079:2015
204.	Copper base Alloys Brass/Bronze	Cadmium	BS EN 15079:2015
205.	Copper base Alloys Brass/Bronze	Cobalt	BS EN 15079:2015
206.	Copper base Alloys Brass/Bronze	Chromium	BS EN 15079:2015
207.	Copper base Alloys Brass/Bronze	Iron	BS EN 15079:2015
208.	Copper base Alloys Brass/Bronze	Magnesium	BS EN 15079:2015
209.	Copper base Alloys Brass/Bronze	Manganese	BS EN 15079:2015

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
210.	Copper base Alloys Brass/Bronze	Nickel	BS EN 15079:2015
211.	Copper base Alloys Brass/Bronze	Phosphorous	BS EN 15079:2015
212.	Copper base Alloys Brass/Bronze	Lead	BS EN 15079:2015
213.	Copper base Alloys Brass/Bronze	Sulphur	BS EN 15079:2015
214.	Copper base Alloys Brass/Bronze	Antimony	BS EN 15079:2015
215.	Copper base Alloys Brass/Bronze	Selenium	BS EN 15079:2015
216.	Copper base Alloys Brass/Bronze	Silicon	BS EN 15079:2015
217.	Copper base Alloys Brass/Bronze	Tin	BS EN 15079:2015
218.	Copper base Alloys Brass/Bronze	Tellurium	BS EN 15079:2015
219.	Copper base Alloys Brass/Bronze	Titanium	BS EN 15079:2015
220.	Copper base Alloys Brass/Bronze	Zinc	BS EN 15079:2015
221.	Copper base Alloys Brass/Bronze	Zirconium	BS EN 15079:2015

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
222.	Cast iron	Carbon	ASTM E 1999-23
223.	Cast iron	Chromium	ASTM E 1999-23
224.	Cast iron	Copper	ASTM E 1999-23
225.	Cast iron	Manganese	ASTM E 1999-23
226.	Cast iron	Molybdenum	ASTM E 1999-23
227.	Cast iron	Nickel	ASTM E 1999-23
228.	Cast iron	Phosphorous	ASTM E 1999-23
229.	Cast iron	Silicon	ASTM E 1999-23
230.	Cast iron	Sulphur	ASTM E 1999-23
231.	Cast iron	Tin	ASTM E 1999-23
232.	Cast iron	Titanium	ASTM E 1999-23
233.	Cast iron	Vanadium	ASTM E 1999-23
234.	Cast iron	Carbon	JIS G 1253:2002/AMENDMENT 1:2013
235.	Cast iron	Silicon	JIS G 1253:2002/AMENDMENT 1:2013
236.	Cast iron	Manganese	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
237.	Cast iron	Phosphorous	JIS G 1253:2002/AMENDMENT 1:2013
238.	Cast iron	Sulphur	JIS G 1253:2002/AMENDMENT 1:2013
239.	Cast iron	Nickel	JIS G 1253:2002/AMENDMENT 1:2013
240.	Cast iron	Chromium	JIS G 1253:2002/AMENDMENT 1:2013
241.	Cast iron	Molybdenum	JIS G 1253:2002/AMENDMENT 1:2013
242.	Cast iron	Copper	JIS G 1253:2002/AMENDMENT 1:2013
243.	Cast iron	Tungsten	JIS G 1253:2002/AMENDMENT 1:2013
244.	Cast iron	Vanadium	JIS G 1253:2002/AMENDMENT 1:2013
245.	Cast iron	Cobalt	JIS G 1253:2002/AMENDMENT 1:2013
246.	Cast iron	Titanium	JIS G 1253:2002/AMENDMENT 1:2013
247.	Cast iron	Aluminum	JIS G 1253:2002/AMENDMENT 1:2013
248.	Cast iron	Arsenic	JIS G 1253:2002/AMENDMENT 1:2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
249.	Cast iron	Tin	JIS G 1253:2002/AMENDMENT 1:2013
250.	Cast iron	Boron	JIS G 1253:2002/AMENDMENT 1:2013
251.	Cast iron	Nitrogen	JIS G 1253:2002/AMENDMENT 1:2013
252.	Cast iron	Lead	JIS G 1253:2002/AMENDMENT 1:2013
253.	Cast iron	Zirconium	JIS G 1253:2002/AMENDMENT 1:2013
254.	Cast iron	Niobium	JIS G 1253:2002/AMENDMENT 1:2013
255.	Cast iron	Magnesium	JIS G 1253:2002/AMENDMENT 1:2013
256.	Cast iron	Selenium	JIS G 1253:2002/AMENDMENT 1:2013
257.	Cast iron	Tellurium	JIS G 1253:2002/AMENDMENT 1:2013
258.	Cast iron	Lanthanum	JIS G 1253:2002/AMENDMENT 1:2013
259.	Cast iron	Cerium	JIS G 1253:2002/AMENDMENT 1:2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
1.	Steel Products	Ultimate Tensile Strength	ASTM A370-24a
2.	Steel Products	Yield Strength	ASTM A370-24a
3.	Steel Products	0.2 % Proof Strength	ASTM A370-24a
4.	Steel Products	0.5 % Proof Strength	ASTM A370-24a
5.	Steel Products	1.0 % Proof Strength	ASTM A370-24a
6.	Steel Products	Elongation	ASTM A370-24a
7.	Steel Products	Reduction of Area	ASTM A370-24a
8.	Ferrous Metals	Ultimate Tensile Strength	ASTM E8/E8M-25
9.	Ferrous Metals	Yield Strength	ASTM E8/E8M-25
10.	Ferrous Metals	0.2 % Proof Strength	ASTM E8/E8M-25
11.	Ferrous Metals	0.5 % Proof Strength	ASTM E8/E8M-25
12.	Ferrous Metals	1.0 % Proof Strength	ASTM E8/E8M-25
13.	Ferrous Metals	Elongation	ASTM E8/E8M-25
14.	Ferrous Metals	Reduction of Area	ASTM E8/E8M-25
15.	Non-Ferrous Metals	Ultimate Tensile Strength	ASTM E8/E8M-25
16.	Non-Ferrous Metals	Yield Strength	ASTM E8/E8M-25

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
17.	Non-Ferrous Metals	0.2 % Proof Strength	ASTM E8/E8M-25
18.	Non-Ferrous Metals	0.5 % Proof Strength	ASTM E8/E8M-25
19.	Non-Ferrous Metals	1.0 % Proof Strength	ASTM E8/E8M-25
20.	Non-Ferrous Metals	Elongation	ASTM E8/E8M-25
21.	Non-Ferrous Metals	Reduction of Area	ASTM E8/E8M-25
22.	Non-Ferrous Metals	Ultimate Tensile Strength	ASTM B557M-15(2023)
23.	Non-Ferrous Metals	Yield Strength	ASTM B557M-15(2023)
24.	Non-Ferrous Metals	0.2 % Proof Strength	ASTM B557M-15(2023)
25.	Non-Ferrous Metals	0.5 % Proof Strength	ASTM B557M-15(2023)
26.	Non-Ferrous Metals	1.0 % Proof Strength	ASTM B557M-15(2023)
27.	Non-Ferrous Metals	Elongation	ASTM B557M-15(2023)
28.	Non-Ferrous Metals	Reduction of Area	ASTM B557M-15(2023)
29.	Ferrous Metals	Ultimate Tensile Strength	IS 1608: Part1:2022
30.	Ferrous Metals	Yield Strength	IS 1608: Part1:2022
31.	Ferrous Metals	0.2 % Proof Strength	IS 1608: Part1:2022
32.	Ferrous Metals	0.5 % Proof Strength	IS 1608: Part1:2022
33.	Ferrous Metals	1.0 % Proof Strength	IS 1608: Part1:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
34.	Ferrous Metals	Elongation	IS 1608: Part1:2022
35.	Ferrous Metals	Reduction of Area	IS 1608: Part1:2022
36.	Non-Ferrous Metals	Ultimate Tensile Strength	IS 1608: Part1:2022
37.	Non-Ferrous Metals	Yield Strength	IS 1608: Part1:2022
38.	Non-Ferrous Metals	0.2 % Proof Strength	IS 1608: Part1:2022
39.	Non-Ferrous Metals	0.5 % Proof Strength	IS 1608: Part1:2022
40.	Non-Ferrous Metals	1.0 % Proof Strength	IS 1608: Part1:2022
41.	Non-Ferrous Metals	Elongation	IS 1608: Part1:2022
42.	Non-Ferrous Metals	Reduction of Area	IS 1608: Part1:2022
43.	Ferrous Metals	Ultimate Tensile Strength	ISO 6892-1:2019
44.	Ferrous Metals	Yield Strength	ISO 6892-1:2019
45.	Ferrous Metals	0.2 % Proof Strength	ISO 6892-1:2019
46.	Ferrous Metals	0.5 % Proof Strength	ISO 6892-1:2019
47.	Ferrous Metals	1.0 % Proof Strength	ISO 6892-1:2019
48.	Ferrous Metals	Elongation	ISO 6892-1:2019
49.	Ferrous Metals	Reduction of Area	ISO 6892-1:2019
50.	Non-Ferrous Metals	Ultimate Tensile Strength	ISO 6892-1:2019

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
51.	Non-Ferrous Metals	Yield Strength	ISO 6892-1:2019
52.	Non-Ferrous Metals	0.2 % Proof Strength	ISO 6892-1:2019
53.	Non-Ferrous Metals	0.5 % Proof Strength	ISO 6892-1:2019
54.	Non-Ferrous Metals	1.0 % Proof Strength	ISO 6892-1:2019
55.	Non-Ferrous Metals	Elongation	ISO 6892-1:2019
56.	Non-Ferrous Metals	Reduction of Area	ISO 6892-1:2019
57.	Ferrous Metals	Ultimate Tensile Strength	JIS Z 2241:2022
58.	Ferrous Metals	Yield Strength	JIS Z 2241:2022
59.	Ferrous Metals	0.2 % Proof Strength	JIS Z 2241:2022
60.	Ferrous Metals	0.5 % Proof Strength	JIS Z 2241:2022
61.	Ferrous Metals	1.0 % Proof Strength	JIS Z 2241:2022
62.	Ferrous Metals	Elongation	JIS Z 2241:2022
63.	Ferrous Metals	Reduction of Area	JIS Z 2241:2022
64.	Non-Ferrous Metals	Ultimate Tensile Strength	JIS Z 2241:2022
65.	Non-Ferrous Metals	Yield Strength	JIS Z 2241:2022
66.	Non-Ferrous Metals	0.2 % Proof Strength	JIS Z 2241:2022
67.	Non-Ferrous Metals	0.5 % Proof Strength	JIS Z 2241:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
68.	Non-Ferrous Metals	1.0 % Proof Strength	JIS Z 2241:2022
69.	Non-Ferrous Metals	Elongation	JIS Z 2241:2022
70.	Non-Ferrous Metals	Reduction of Area	JIS Z 2241:2022
71.	Ferrous Metals	Ultimate Tensile Strength	GOST 10006-80
72.	Ferrous Metals	Yield Strength	GOST 10006-80
73.	Ferrous Metals	0.2 % Proof Strength	GOST 10006-80
74.	Ferrous Metals	0.5 % Proof Strength	GOST 10006-80
75.	Ferrous Metals	1.0 % Proof Strength	GOST 10006-80
76.	Ferrous Metals	Elongation	GOST 10006-80
77.	Ferrous Metals	Reduction of Area	GOST 10006-80
78.	Non-Ferrous Metals	Ultimate Tensile Strength	GOST 10006-80
79.	Non-Ferrous Metals	Yield Strength	GOST 10006-80
80.	Non-Ferrous Metals	0.2 % Proof Strength	GOST 10006-80
81.	Non-Ferrous Metals	0.5 % Proof Strength	GOST 10006-80
82.	Non-Ferrous Metals	1.0 % Proof Strength	GOST 10006-80
83.	Non-Ferrous Metals	Elongation	GOST 10006-80
84.	Non-Ferrous Metals	Reduction of Area	GOST 10006-80

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
85.	Ferrous Metals	Ultimate Tensile Strength	GOST 1497-2023
86.	Ferrous Metals	Yield Strength	GOST 1497-2023
87.	Ferrous Metals	0.2 % Proof Strength	GOST 1497-2023
88.	Ferrous Metals	0.5 % Proof Strength	GOST 1497-2023
89.	Ferrous Metals	1.0 % Proof Strength	GOST 1497-2023
90.	Ferrous Metals	Elongation	GOST 1497-2023
91.	Ferrous Metals	Reduction of Area	GOST 1497-2023
92.	Non-Ferrous Metals	Ultimate Tensile Strength	GOST 1497-2023
93.	Non-Ferrous Metals	Yield Strength	GOST 1497-2023
94.	Non-Ferrous Metals	0.2 % Proof Strength	GOST 1497-2023
95.	Non-Ferrous Metals	0.5 % Proof Strength	GOST 1497-2023
96.	Non-Ferrous Metals	1.0 % Proof Strength	GOST 1497-2023
97.	Non-Ferrous Metals	Elongation	GOST 1497-2023
98.	Non-Ferrous Metals	Reduction of Area	GOST 1497-2023
99.	Welded Metallic Materials	Ultimate Tensile Strength	ISO 5178:2019
100.	Welded Metallic Materials	Yield Strength	ISO 5178:2019
101.	Welded Metallic Materials	0.2 % Proof Strength	ISO 5178:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
102.	Welded Metallic Materials	0.5 % Proof Strength	ISO 5178:2019
103.	Welded Metallic Materials	1.0 % Proof Strength	ISO 5178:2019
104.	Welded Metallic Materials	Elongation	ISO 5178:2019
105.	Welded Metallic Materials	Reduction of Area	ISO 5178:2019
106.	Welded Metallic Materials	Ultimate Tensile Strength	AWS B4.0: 2016-AMD 1
107.	Welded Metallic Materials	Yield Strength	AWS B4.0: 2016-AMD 1
108.	Welded Metallic Materials	0.2 % Proof Strength	AWS B4.0: 2016-AMD 1
109.	Welded Metallic Materials	0.5 % Proof Strength	AWS B4.0: 2016-AMD 1
110.	Welded Metallic Materials	1.0 % Proof Strength	AWS B4.0: 2016-AMD 1
111.	Welded Metallic Materials	Elongation	AWS B4.0: 2016-AMD 1
112.	Welded Metallic Materials	Reduction of Area	AWS B4.0: 2016-AMD 1
113.	Welding Pipeline	Ultimate Tensile Strength	API Standard 1104, 22nd Edition
114.	Welded Ferrous Metals	Ultimate Tensile Strength	ASME BPVC.IX-2025
115.	Welded Nonferrous Metals	Ultimate Tensile Strength	ASME BPVC.IX-2025
116.	Welded Ferrous Metals	Ultimate Tensile Strength	AWS D1.1/D1.1M:2025
117.	Welded Ferrous Metals	Yield Strength	AWS D1.1/D1.1M:2025
118.	Welded Ferrous Metals	0.2 % Proof Strength	AWS D1.1/D1.1M:2025

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QAI/CIA/TL/2024/0057

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
119.	Welded Ferrous Metals	0.5 % Proof Strength	AWS D1.1/D1.1M:2025
120.	Welded Ferrous Metals	1.0 % Proof Strength	AWS D1.1/D1.1M:2025
121.	Welded Ferrous Metals	Elongation	AWS D1.1/D1.1M:2025
122.	Welded Ferrous Metals	Reduction of Area	AWS D1.1/D1.1M:2025
123.	Welded Nonferrous Metals	Ultimate Tensile Strength	AWS D1.1/D1.1M:2025
124.	Welded Nonferrous Metals	Yield Strength	AWS D1.1/D1.1M:2025
125.	Welded Nonferrous Metals	0.2 % Proof Strength	AWS D1.1/D1.1M:2025
126.	Welded Nonferrous Metals	0.5 % Proof Strength	AWS D1.1/D1.1M:2025
127.	Welded Nonferrous Metals	1.0 % Proof Strength	AWS D1.1/D1.1M:2025
128.	Welded Nonferrous Metals	Elongation	AWS D1.1/D1.1M:2025
129.	Welded Nonferrous Metals	Reduction of Area	AWS D1.1/D1.1M:2025
130.	Welded Metallic Materials	Ultimate Tensile Strength	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
131.	Welded Metallic Materials	Yield Strength	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
132.	Welded Metallic Materials	0.2 % Proof Strength	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
133.	Welded Metallic Materials	0.5 % Proof Strength	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
134.	Welded Metallic Materials	1.0 % Proof Strength	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
135.	Welded Metallic Materials	Elongation	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
136.	Welded Metallic Materials	Reduction of Area	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
137.	Welded Metallic Materials	Ultimate Tensile Strength	IS 3600: Part 1: 2022
138.	Welded Metallic Materials	Ultimate Tensile Strength	IS 3600: Part 3: 2025
139.	Welded Metallic Materials	Ultimate Tensile Strength	IS 3600: Part 4: 2024
140.	Welded Metallic Materials	Yield Strength	IS 3600: Part 4: 2024
141.	Welded Metallic Materials	0.2 % Proof Strength	IS 3600: Part 4: 2024
142.	Welded Metallic Materials	0.5 % Proof Strength	IS 3600: Part 4: 2024
143.	Welded Metallic Materials	1.0 % Proof Strength	IS 3600: Part 4: 2024
144.	Welded Metallic Materials	Elongation	IS 3600: Part 4: 2024
145.	Welded Metallic Materials	Reduction of Area	IS 3600: Part 4: 2024
146.	Welded Metallic Materials	Ultimate Tensile Strength	ISO 4136:2022
147.	Steel Reinforcing Bars	Ultimate Tensile Strength	AWS D1.4/D1.4M:2018
148.	Welded Metallic Materials	Ultimate Tensile Strength	AWS D1.5M/D1.5:2025
149.	Welded Metallic Materials	Yield Strength	AWS D1.5M/D1.5:2025

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
150.	Welded Metallic Materials	0.2 % Proof Strength	AWS D1.5M/D1.5:2025
151.	Welded Metallic Materials	0.5 % Proof Strength	AWS D1.5M/D1.5:2025
152.	Welded Metallic Materials	1.0 % Proof Strength	AWS D1.5M/D1.5:2025
153.	Welded Metallic Materials	Elongation	AWS D1.5M/D1.5:2025
154.	Welded Metallic Materials	Reduction of Area	AWS D1.5M/D1.5:2025
155.	Welding Pipeline	Ultimate Tensile Strength	BS 4515-2:1999
156.	Steel Products	Reduction of Area	ISO 7778:2014
157.	Steel Products	Reduction of Area	ASTM A770/A770M-03(2025)
158.	Steel Products	Reduction of Area	ASME BPVC.II. A SA-770/SA-770M - 2025
159.	TMT Bar / Reinforcement Bar	Ultimate Tensile Strength	ISO 15630-1:2019
160.	TMT Bar / Reinforcement Bar	Yield Strength	ISO 15630-1:2019
161.	TMT Bar / Reinforcement Bar	0.2 % Proof Strength	ISO 15630-1:2019
162.	TMT Bar / Reinforcement Bar	0.5 % Proof Strength	ISO 15630-1:2019
163.	TMT Bar / Reinforcement Bar	1.0 % Proof Strength	ISO 15630-1:2019
164.	TMT Bar / Reinforcement Bar	Elongation	ISO 15630-1:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
165.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Ultimate Tensile Strength	ASTM E21-20
166.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Yield Strength	ASTM E21-20
167.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.2 % Proof Strength	ASTM E21-20
168.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.5 % Proof Strength	ASTM E21-20
169.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 1.0 % Proof Strength	ASTM E21-20
170.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Elongation	ASTM E21-20
171.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Reduction of Area	ASTM E21-20
172.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Ultimate Tensile Strength	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		
173.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Yield Strength	ISO 6892-2:2018
174.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.2 % Proof Strength	ISO 6892-2:2018
175.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.5 % Proof Strength	ISO 6892-2:2018
176.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 1.0 % Proof Strength	ISO 6892-2:2018
177.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Elongation	ISO 6892-2:2018
178.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Reduction of Area	ISO 6892-2:2018
179.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Ultimate Tensile Strength	IS 1608: Part 2: 2020
180.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Yield Strength	IS 1608: Part 2: 2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
181.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.2 % Proof Strength	IS 1608: Part 2: 2020
182.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.5 % Proof Strength	IS 1608: Part 2: 2020
183.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 1.0 % Proof Strength	IS 1608: Part 2: 2020
184.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Elongation	IS 1608: Part 2: 2020
185.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Reduction of Area	IS 1608: Part 2: 2020
186.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Ultimate Tensile Strength	GOST 19040-81
187.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Yield Strength	GOST 19040-81
188.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.2 % Proof Strength	GOST 19040-81

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
189.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 0.5 % Proof Strength	GOST 19040-81
190.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, 1.0 % Proof Strength	GOST 19040-81
191.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Elongation	GOST 19040-81
192.	Metallic Materials	Tensile Test at Elevated Temp. up to 1000°C, Reduction of Area	GOST 19040-81
193.	TMT Bar / Reinforcement Bar	Mass per meter	IS 1786:2008 (Reaffirmed Year: 2018)
194.	TMT Bar / Reinforcement Bar	Mass per meter	ISO 15630-1:2019
195.	TMT Bar / Reinforcement Bar	Mass per meter	ASTM A615/A615M-25
196.	Ferrous Metals, Non-ferrous Metals	Bend Test	ASTM E290-22
197.	Steel Products	Bend Test	ASTM A370-24a
198.	Metallic Materials	Bend Test	IS 1599: 2023
199.	Metallic Materials	Bend Test	ISO 7438:2020
200.	Metallic Materials	Bend Test	ISO 8491:1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
201.	Metallic Materials	Bend Test	GOST 3728-78
202.	Metallic Materials	Bend Test	GOST 14019-80
203.	Welded Ferrous and Nonferrous Metals	Bend Test	ASTM E190-21
204.	Welded Ferrous and Nonferrous Metals	Bend Test	ASME BPVC.IX-2025
205.	Metallic Materials	Bend Test	ISO 5173:2023
206.	Welded Metallic Materials	Bend Test	IS 3600: Part 5: 2025
207.	Welded Metallic Materials	Bend Test	IS 3600: Part 7: 1985 (Reaffirmed Year: 2019)
208.	Welded Metallic Materials	Bend Test	AWS B4.0: 2016-AMD 1
209.	Welding Pipeline	Bend Test	API Standard 1104, 22nd Edition
210.	Welded Ferrous and Nonferrous Metals	Bend Test	AWS D1.1/D1.1M:2025
211.	Welded Metallic Materials	Bend Test	IS 7310: Part 1: 2019
212.	Welded Metallic Materials	Bend Test	IS 7307: Part 1: 1974 (Reaffirmed Year: 2019)
213.	TMT Bar / Reinforcement Bar	Bend Test	IS 1786: 2008 (Reaffirmed Year: 2018)
214.	Welded Metallic Materials	Bend Test	ISO 9606-1:2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
215.	Ferrous Metals, Non-ferrous Metals	Bend Test	ISO 15614-1:2017
216.	Welded Metallic Materials	Bend Test	AWS D1.5M/D1.5:2025
217.	TMT Bar / Reinforcement Bar	Bend Test	ISO 15630-1:2019
218.	TMT Bar / Reinforcement Bar	Rebend Test	IS 1786: 2008(Reaffirmed Year: 2018)
219.	TMT Bar / Reinforcement Bar	Rebend Test	ISO 15630-1:2019
220.	Welding Pipeline	Nick Break Test	API Standard 1104, 22nd Edition
221.	Welded Metallic Materials	Nick Break Test	AWS B4.0: 2016-AMD 1
222.	Steel Products	Flattening Test	ASTM A370-24a
223.	Metallic Materials	Flattening Test	IS 2328: 2018 (Reaffirmed Year: 2023)
224.	Metallic Materials	Flattening Test	ISO 8492:2013
225.	Metallic Materials	Flattening Test	GOST 8695-2022
226.	Steel Products	Flaring Test	ASTM A370-24a
227.	Metallic Materials	Drift Expansion Test	ISO 8493:1998
228.	Metallic Materials	Drift Expansion Test	IS 2335: 2005 (Reaffirmed Year: 2022)
229.	Metallic Materials	Drift Expansion Test	GOST 8694-2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
230.	Ferrous & Non-Ferrous Metallic Pipe/Tube	Flanging Test	ASTM A1016/A1016M-24a
231.	Steel Products	Proof Load Test	ASTM A370-24a
232.	Ferrous Metals	Proof Load Test	ASTM F606/F606M-25a
233.	Ferrous Metals	Proof Load Test	ASTM A962/A962M-25a
234.	Metallic Materials	Proof Load Test	ASTM A194/A194M-24
235.	Ferrous Metals	Proof Load Test	ISO 3506-1:2020
236.	Ferrous Metals	Proof Load Test	ISO 3506-2:2020
237.	Ferrous Metals	Proof Load Test	IS 1367: Part 6: 2025
238.	Ferrous Metals	Proof Load Test	ISO 898-1:2013
239.	Ferrous Metals	Proof Load Test	ISO 898-2:2022
240.	Welded Metallic Materials	Fracture Test	ISO 9017:2017
241.	Welded Ferrous and Nonferrous Metals	Fracture Test	ASME BPVC.IX-2025
242.	Steel Products	Rockwell Hardness "B" Scale	ASTM A370-24a
243.	Steel Products	Rockwell Hardness "C" Scale	ASTM A370-24a
244.	Metallic Materials	Rockwell Hardness "B" Scale	ASTM E18-25
245.	Metallic Materials	Rockwell Hardness "C" Scale	ASTM E18-25

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
246.	Metallic Materials	Rockwell Hardness "B" Scale	IS 1586: Part 1: 2025
247.	Metallic Materials	Rockwell Hardness "C" Scale	IS 1586: Part 1: 2025
248.	Metallic Materials	Rockwell Hardness "B" Scale	ISO 6508-1:2023
249.	Metallic Materials	Rockwell Hardness "C" Scale	ISO 6508-1:2023
250.	Metallic Materials	Rockwell Hardness "B" Scale	GOST 9013-59
251.	Metallic Materials	Rockwell Hardness "C" Scale	GOST 9013-59
252.	Metallic Materials	Vickers Hardness HV 1 Scale	ASTM E92-23
253.	Metallic Materials	Vickers Hardness HV 5 Scale	ASTM E92-23
254.	Metallic Materials	Vickers Hardness HV 10 Scale	ASTM E92-23
255.	Metallic Materials	Vickers Hardness HV 20 Scale	ASTM E92-23
256.	Metallic Materials	Vickers Hardness HV 30 Scale	ASTM E92-23
257.	Metallic Materials	Vickers Hardness HV 50 Scale	ASTM E92-23
258.	Metallic Materials	Vickers Hardness HV 1 Scale	ISO 6507-1:2023
259.	Metallic Materials	Vickers Hardness HV 5 Scale	ISO 6507-1:2023
260.	Metallic Materials	Vickers Hardness HV 10 Scale	ISO 6507-1:2023
261.	Metallic Materials	Vickers Hardness HV 20 Scale	ISO 6507-1:2023
262.	Metallic Materials	Vickers Hardness HV 30 Scale	ISO 6507-1:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
263.	Metallic Materials	Vickers Hardness HV 50 Scale	ISO 6507-1:2023
264.	Metallic Materials	Vickers Hardness HV 1 Scale	IS 1501: Part 1: 2025
265.	Metallic Materials	Vickers Hardness HV 5 Scale	IS 1501: Part 1: 2025
266.	Metallic Materials	Vickers Hardness HV 10 Scale	IS 1501: Part 1: 2025
267.	Metallic Materials	Vickers Hardness HV 20 Scale	IS 1501: Part 1: 2025
268.	Metallic Materials	Vickers Hardness HV 30 Scale	IS 1501: Part 1: 2025
269.	Metallic Materials	Vickers Hardness HV 50 Scale	IS 1501: Part 1: 2025
270.	Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ASTM E384-22
271.	Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ASTM E384-22
272.	Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ASTM E384-22
273.	Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ASTM E384-22
274.	Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ASTM E384-22
275.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ASTM E384-22
276.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ASTM E384-22

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
277.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ASTM E384-22
278.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ASTM E384-22
279.	Non-Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ASTM E384-22
280.	Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ASTM E92-23
281.	Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ASTM E92-23
282.	Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ASTM E92-23
283.	Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ASTM E92-23
284.	Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ASTM E92-23
285.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ASTM E92-23
286.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ASTM E92-23
287.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ASTM E92-23
288.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ASTM E92-23

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
289.	Non-Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ASTM E92-23
290.	Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	IS 1501: Part 1: 2025
291.	Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	IS 1501: Part 1: 2025
292.	Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	IS 1501: Part 1: 2025
293.	Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	IS 1501: Part 1: 2025
294.	Ferrous Metals	Micro Vickers Hardness HV 1 Scale	IS 1501: Part 1: 2025
295.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	IS 1501: Part 1: 2025
296.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	IS 1501: Part 1: 2025
297.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	IS 1501: Part 1: 2025
298.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	IS 1501: Part 1: 2025
299.	Non-Ferrous Metals	Micro Vickers Hardness HV 1 Scale	IS 1501: Part 1: 2025
300.	Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ISO 6507-1:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
301.	Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ISO 6507-1:2023
302.	Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ISO 6507-1:2023
303.	Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ISO 6507-1:2023
304.	Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ISO 6507-1:2023
305.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ISO 6507-1:2023
306.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ISO 6507-1:2023
307.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ISO 6507-1:2023
308.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ISO 6507-1:2023
309.	Non-Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ISO 6507-1:2023
310.	Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ISO 9015-2:2016
311.	Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ISO 9015-2:2016
312.	Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ISO 9015-2:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
313.	Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ISO 9015-2:2016
314.	Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ISO 9015-2:2016
315.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.1 Scale	ISO 9015-2:2016
316.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.2 Scale	ISO 9015-2:2016
317.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.3 Scale	ISO 9015-2:2016
318.	Non-Ferrous Metals	Micro Vickers Hardness HV 0.5 Scale	ISO 9015-2:2016
319.	Non-Ferrous Metals	Micro Vickers Hardness HV 1 Scale	ISO 9015-2:2016
320.	Metallic Materials	Brinell Hardness Test (5 mm @ 750 kg)	ASTM E10-23
321.	Metallic Materials	Brinell Hardness Test (10 mm @ 3000 kg)	ASTM E10-23
322.	Metallic Materials	Brinell Hardness Test (5 mm @ 250 kg)	ASTM E10-23
323.	Metallic Materials	Brinell Hardness Test (5 mm @ 750 kg)	IS 1500: Part 1: 2019 (Reaffirmed Year: 2024)
324.	Metallic Materials	Brinell Hardness Test (10 mm @ 3000 kg)	IS 1500: Part 1: 2019 (Reaffirmed Year: 2024)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
325.	Metallic Materials	Brinell Hardness Test (5 mm @ 250 kg)	IS 1500: Part 1: 2019 (Reaffirmed Year: 2024)
326.	Metallic Materials	Brinell Hardness Test (5 mm @ 750 kg)	ISO 6506-1:2014
327.	Metallic Materials	Brinell Hardness Test (10 mm @ 3000 kg)	ISO 6506-1:2014
328.	Metallic Materials	Brinell Hardness Test (5 mm @ 250 kg)	ISO 6506-1:2014
329.	Steel Products	Brinell Hardness Test (10 mm @ 3000 kg)	ASTM A370-24a
330.	Ferrous Metals	Hardness HRBW (UCI)	ASTM A1038-19
331.	Ferrous Metals	Hardness HRC (UCI)	ASTM A1038-19
332.	Ferrous Metals	Hardness HBW (UCI)	ASTM A1038-19
333.	Non-Ferrous Metals	Hardness HRBW (UCI)	ASTM A1038-19
334.	Non-Ferrous Metals	Hardness HRC (UCI)	ASTM A1038-19
335.	Non-Ferrous Metals	Hardness HBW (UCI)	ASTM A1038-19
336.	Steel Products	Portable Hardness (HRBW)	ASTM A956/A956M-22
337.	Steel Products	Portable Hardness (HRC)	ASTM A956/A956M-22
338.	Steel Products	Portable Hardness (HBW)	ASTM A956/A956M-22

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
339.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ISO 9016:2022
340.	Metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ASTM E23-25
341.	Welded Ferrous Metals	Charpy V notch impact test @ -196°C to ambient temperature	ASME BPVC.IX-2025
342.	Welded Nonferrous Metals	Charpy V notch impact test @ -196°C to ambient temperature	ASME BPVC.IX-2025
343.	Ferrous metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	IS 3600: Part 2: 2025
344.	Welded Ferrous Metals	Charpy V notch impact test @ -196°C to ambient temperature	AWS D1.1/D1.1M:2025
345.	Welded Nonferrous Metals	Charpy V notch impact test @ -196°C to ambient temperature	AWS D1.1/D1.1M:2025
346.	Metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	IS 1757 Part 1: 2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
347.	Metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	ISO 148-1:2016
348.	Steel Products	Charpy V notch impact test @ -196°C to ambient temperature	ASTM A370-24a
349.	Metallic materials	Charpy V notch impact test @ -196°C to ambient temperature	JIS Z 2242:2023
350.	Austenitic, Ferritic & Duplex Stainless Steels	Charpy V notch impact test @ -196°C to ambient temperature	ASTM A923-25, Method B
351.	Metallic materials	Coating Adhesion Test	IS 15961: 2025
352.	Metallic & Non-Metallic Coatings	Cross Hatch Adhesion Test	ASTM D3359-23
353.	Ferrous materials	Adhesion Pull off strength	ASTM D4541-22, Method E
354.	Ferrous materials	Adhesion Pull off strength	ISO 4624:2023
355.	Ferrous Material	Shear Strength Test	ASME Section II Part A SA 263 Clause 4.1.7 (Section 7, 8 & 9):2025
356.	Ferrous Material	Shear Strength Test	ASME Section II Part A SA 264 Clause 4.1.7 (Section 7): 2025

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
357.	Ferrous Material	Shear Strength Test	ASME Section II Part A SA 265 Clause 4.1.7 (Section 7): 2025
358.	Non-Ferrous Metals	Shear Strength Test	ASME Section II Part A SA 263 Clause 4.1.7 (Section 7, 8 & 9):2025
359.	Non-Ferrous Metals	Shear Strength Test	ASME Section II Part A SA 264 Clause 4.1.7 (Section 7): 2025
360.	Non-Ferrous Metals	Shear Strength Test	ASME Section II Part A SA 265 Clause 4.1.7 (Section 7): 2025
361.	Ferrous Material	Shear Strength Test	ASTM A263-12(2019)
362.	Ferrous Material	Shear Strength Test	ASTM A264-12(2019)
363.	Ferrous Material	Shear Strength Test	ASTM A265-12(2019)
364.	Non-Ferrous Metals	Shear Strength Test	ASTM A263-12(2019)
365.	Non-Ferrous Metals	Shear Strength Test	ASTM A264-12(2019)
366.	Non-Ferrous Metals	Shear Strength Test	ASTM A265-12(2019)
367.	Ferrous Material	Carburization Test	ASTM F2328-17(2022)
368.	Ferrous Material	Carburization Test	IS 1367: Part 3: 2017
369.	Ferrous Material	Decarburization Test	ASTM F2328-17(2022)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
370.	Ferrous Material	Decarburization Test	IS 1367: Part 3: 2017
371.	Ferrous Material	Coating Thickness (Magnetic Method)	IS 3203: 1982 (Reaffirmed Year: 2021)
372.	Ferrous Material	Coating Thickness (Magnetic Method)	ASTM B499-09(2021) e1
373.	Ferrous Material	Coating Thickness (Magnetic Method)	IS 12860: 1989 (Reaffirmed Year: 2020)
374.	Metallic Material	Cupping Test	ASTM E643-24
375.	Metallic Material	Erichsen Cupping Test	IS 10175: 2018 (Reaffirmed Year: 2023)
376.	Metallic Material	Erichsen Cupping Test	ISO 20482:2013
377.	Metallic Material	Creep Rupture Test (Creep Rate)	ASTM E139-24
378.	Metallic Material	Creep Rupture Test (% Elongation)	ASTM E139-24
379.	Metallic Material	Stress Rupture Test (% Elongation)	ASTM E139-24
380.	Metallic Material	Stress Rupture Test (% Reduction of Area)	ASTM E139-24
381.	Metallic Material	Creep Rupture Test (Creep Rate)	ISO 204:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
382.	Metallic Material	Creep Rupture Test (% Elongation)	ISO 204:2023
383.	Steel Products	Tensile Creep Test (Creep Rate)	IS 3407: Part 1: 1983 (Reaffirmed Year: 2022)
384.	Steel Products	Tensile Creep (% Elongation)	IS 3407: Part 1: 1983 (Reaffirmed Year: 2022)
385.	Steel Products	Tensile Creep Test (% Reduction in Area)	IS 3407: Part 1: 1983 (Reaffirmed Year: 2022)
386.	Steel Products	Tensile Creep stress rupture Test (% Elongation)	IS 3407: Part 2: 1983 (Reaffirmed Year: 2022)
387.	Steel Products	Tensile Creep stress rupture Test (% Reduction of Area)	IS 3407: Part 2: 1983 (Reaffirmed Year: 2022)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
1.	Ferrous and Nonferrous metallic material	Microstructure Examination	ASM Handbook Volume 9
2.	Ferrous and Nonferrous metallic material	Microstructure Examination	ASTM E3-11(2025)
3.	Steel Products	Microstructure Examination	GOST 5640-2020
4.	Ferrous Materials	Microstructure Examination	ISO 17781:2017
5.	Ferrous Materials	Microstructure Examination	ASTM E1268-19
6.	Austenitic, Ferritic & Duplex Stainless Steels	Microstructure Examination	ASTM A923-25, Method A
7.	Cast iron	Microstructure Examination	IS 7754: 1975 (Reaffirmed Year: 2018)
8.	Cast iron	Microstructure Examination	ISO 945-1:2019
9.	Cast iron	Microstructure Examination	ASTM A247-24
10.	Welded Metallic Materials	Microstructure Examination	ISO 17639:2022
11.	Ferrous and Nonferrous metallic material	Macrostructure Examination	ASTM E340-23
12.	Welded Metallic Materials	Macrostructure Examination	ISO 17639:2022
13.	Steel Bars, Billets, Blooms, and Forgings	Macrostructure Examination	ASTM E381-22

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
14.	Steel Bars, Billets, Blooms	Macrostructure Examination	ASTM A604/A604M-07(2022)
15.	Welded Ferrous and Nonferrous Metals	Macrostructure Examination	AWS D1.1/D1.1M:2025
16.	Welded Metallic Materials	Macrostructure Examination	IS 3600: Part 9: 2025
17.	Steel Products	Macrostructure Examination	IS 11371: 2022
18.	Steel Products	Macrostructure Examination	IS 7307: Part1:1974 (Reaffirmed Year :2019)
19.	Steel Products	Macrostructure Examination	IS 7318: Part 1:1974 (Reaffirmed Year: 2023)
20.	Steel Products	Macrostructure Examination	IS 7310: Part 1: 2019 (Reaffirmed Year: 2023)
21.	Steel Products	Macrostructure Examination	GOST 10243-75
22.	Welding Pipeline	Macrostructure Examination	API Standard 1104, 22nd Edition
23.	Steel Reinforcing Bars	Macrostructure Examination	AWS D1.4/D1.4M:2018
24.	Welded Metallic Materials	Macrostructure Examination	AWS D1.5M/D1.5:2025
25.	Ferrous Metals, Non-Ferrous Metals	Grain Size Measurement	ASTM E112-25
26.	Ferrous Metals	Grain Size Measurement	IS 4748: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
27.	Steel Products	Grain Size Measurement	ISO 643:2024
28.	Ferrous Metals	Grain Size Measurement	GOST 5639-82
29.	Ferrous Metals	Volume Fraction	ASTM E1245-03(2023)
30.	Ferrous Metals	Volume Fraction	ASTM E562-19e1
31.	Stainless Steel Casting, Austenitic Alloy, Duplex (Ferritic/ Stainless Steel and Austenitic & Duplex Weld Metals	Austenitic Ferrite Number Measurement	ISO 8249:2018
32.	Ferrous Metals	% Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	ASTM E2567-16a (2023)
33.	Ferrous Metals	% Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	IS 7754:1975 (Reaffirmed Year:2018)
34.	Ferrous Metals	% Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	ASTM A247-24
35.	Ferrous Metals	% Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	ISO 945-1:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
36.	Hardened Metallic Material	Case Depth Measurement (by microscopic)	IS 6416: 2022
37.	Hardened Metallic Material	Case Depth Measurement (by microscopic)	ISO 18203:2026
38.	Ferrous Metals	Decarburization Depth (by microscopic)	ASTM E1077-14(2021)
39.	Ferrous Metals	Decarburization Depth (by microscopic)	IS 6396: 2023
40.	Ferrous Metals	Decarburization Depth (by microscopic)	ISO 3887:2023
41.	Ferrous Metals	Coating Thickness Measurement (by microscopic)	ASTM B487-24
42.	Ferrous Metals	Coating Thickness Measurement (by microscopic)	ISO 1463:2021
43.	Non-Ferrous Metals	Coating Thickness Measurement (by microscopic)	ASTM B487-24
44.	Non-Ferrous Metals	Coating Thickness Measurement (by microscopic)	ISO 1463:2021
45.	Ferrous Metals	Inclusion Rating	ISO 4967:2013
46.	Ferrous Metals	Inclusion Rating	ASTM E45-25

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
47.	Ferrous Metals	Inclusion Rating	JIS G 0555:2023
48.	Ferrous Metals	Inclusion Rating	IS 4163: 2021
49.	Ferrous Metals	Inclusion Rating	BS EN 10247:2017
50.	Austenitic Stainless Steels	IGC Practice A	ASTM A262-15(2021)
51.	Austenitic Stainless Steels	IGC Practice B	ASTM A262-15(2021)
52.	Austenitic Stainless Steels	IGC Practice C	ASTM A262-15(2021)
53.	Austenitic Stainless Steels	IGC Practice E	ASTM A262-15(2021)
54.	Austenitic Stainless Steels	IGC Practice F	ASTM A262-15(2021)
55.	Austenitic Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	IS 10461: Part 1: 2025
56.	Austenitic Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	IS 10461: Part 2: 1994(Reaffirmed Year :2021)
57.	Ferritic Stainless Steels	IGC Practice W	ASTM A763-15(2025)
58.	Ferritic Stainless Steels	IGC Practice X	ASTM A763-15(2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
59.	Ferritic Stainless Steels	IGC Practice Y	ASTM A763-15(2025)
60.	Ferritic Stainless Steels	IGC Practice Z	ASTM A763-15(2025)
61.	Wrought, Nickel-Rich, Chromium Bearing Alloys	Susceptibility to Intergranular Corrosion Method A	ASTM G28-24
62.	Wrought, Nickel-Rich, Chromium Bearing Alloys	Susceptibility to Intergranular Corrosion Method B	ASTM G28-24
63.	Austenitic, Ferritic & Duplex Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	ISO 3651-1:1998
64.	Austenitic, Ferritic & Duplex Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	ISO 3651-2:1998
65.	Austenitic, Ferritic & Duplex Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	GOST 6032-2017
66.	Stainless Steels and Related Alloys	Pitting Corrosion Test Method A	ASTM G48-25
67.	Stainless Steels and Related Alloys	Pitting Corrosion Test Method B	ASTM G48-25
68.	Austenitic, Ferritic & Duplex Stainless Steels	Corrosion Test of Duplex Stainless Steels	ASTM A923-25, Method C
69.	Super Duplex Stainless Steel & Duplex Stainless Steel, Stainless Steel, Ferrous Metals and Its Alloys	Sulphide Stress Cracking & Stress Corrosion Cracking	NACE TM0177-2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Bunitech Metallurgical Services Private Limited

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

QAI/CIA/TL/2024/0057

Date of First accreditation: 31 May 2024- 30 May 2026

Valid from: 31 May 2026

Valid until: 30 May 2028

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
70.	Ferrous Materials, Alloys & Products	Four-point bend test for stress corrosion cracking (SCC)	NACE TM0316-2023
71.	Ferrous Metals	Stress Corrosion Cracking Resistance (MgCl ₂ and CaCl ₂)	ASTM G36-24
72.	Copper Alloys	Susceptibility to Stress Corrosion Cracking	ASTM B858-06(2024)
73.	Copper Alloys	Susceptibility to Stress Corrosion Cracking	ISO 6957:1988
74.	Metallic Material	Hydrogen Induced Cracking Test	NACE TM0284-2016
75.	Copper Alloys	Mercurous Nitrate Test	ASTM B154-16(2022)
76.	Copper Alloys	Mercurous Nitrate Test	IS 2305:1988 (Reaffirmed Year:2021)
77.	Ferrous Metals	Mass of Zinc	ASTM A90/A90M-21
78.	Ferrous Metals	Mass of Zinc	IS 6745:1972 (Reaffirmed Year:2021)
79.	Ferrous Metals	Mass of Zinc	ISO 1460:2020
80.	Ferrous Metals	Uniformity of Zinc Coating	IS 2633:1986 (Reaffirmed Year:2021)

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