

Quality And Accreditation Institute

Centre for International Accreditation



Certificate of Accreditation

Alpha Test House Services LLP

Plot No.-175, Industrial Area Phase-9,
S.A.S. Nagar, Mohali-160062, Punjab, 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/2026/0192

Valid from: 11 September 2026

Valid until: 10 September 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
1.	Ferrous & Non-ferrous Metal	Dimensions and Tolerances	IS 14811: 2000
2.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 14811: 2000
3.	Ferrous & Non-ferrous Metal	Longitudinal Bend Test Angle	IS 14811: 2000
4.	Ferrous & Non-ferrous Metal	Transverse Bend Test Angle	IS 14811: 2000
5.	Ferrous & Non-ferrous Metal	Dimensions	IS 613: 2000
6.	Ferrous & Non-ferrous Metal	Dimensions and Tolerances	IS 4171: 1983
7.	Ferrous & Non-ferrous Metal	Dimensions	IS 1897: 2008
8.	Ferrous & Non-ferrous Metal	Edgewise bending	IS 1897: 2008
9.	Ferrous & Non-ferrous Metal	Condition	IS 2501: 1995
10.	Ferrous & Non-ferrous Metal	Dimensions	IS 14810: 2000
11.	Ferrous & Non-ferrous Metal	Dimensions	IS 1545: 1994
12.	Ferrous & Non-ferrous Metal	Dimensions	IS 2501: 1995
13.	Ferrous & Non-ferrous Metal	Dimensions and Tolerances	IS 10773: 2025
14.	Ferrous & Non-ferrous Metal	Flattening and Doubling-Over Test	IS 2501: 1995
15.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 10773: 2025

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
16.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 14810: 2000
17.	Ferrous & Non-ferrous Metal	Grade	IS 1545: 1994
18.	Ferrous & Non-ferrous Metal	Diameter and Tolerances	IS 4412: 1981
19.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 4412: 1981
20.	Ferrous & Non-ferrous Metal	Dimensions	IS 12444: 2020
21.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 12444: 2020
22.	Ferrous & Non-ferrous Metal	CVN impact test (at temp. $\leq 0^{\circ}\text{C}$)	ISO 148-1: 2016
23.	Ferrous & Non-ferrous Metal	Dimensions	IS/ISO 3183: 2019 (Cl. 9.11)
24.	Ferrous & Non-ferrous Metal	Elongation	ISO 6892 P-1: 2019 (Cl. 20)
25.	Ferrous & Non-ferrous Metal	Ratio of Yield & tensile strength	ISO 6892 P-1: 2019
26.	Ferrous & Non-ferrous Metal	Tensile strength	ISO 6892 P-1: 2019
27.	Ferrous & Non-ferrous Metal	Wall thickness	IS/ISO 3183: 2019
28.	Ferrous & Non-ferrous Metal	Yield strength	ISO 6892 P-1: 2019
29.	Ferrous & Non-ferrous Metal	Dimensions	IS :3757: 1985 (Cl. 2)
30.	Ferrous & Non-ferrous Metal	Elongation	IS 1608 P-1: 2022
31.	Ferrous & Non-ferrous Metal	Rockwell hardness	IS:1586 P-1: 2025

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
32.	Ferrous & Non-ferrous Metal	Vickers hardness	IS:1501 P-1: 2025
33.	Ferrous & Non-ferrous Metal	Charpy impact test (at temp. - 20°C)	IS 1367 (P-3): 2017 (Cl. 9.14)
34.	Ferrous & Non-ferrous Metal	Compression loads	ISO 14399-1: 2005
35.	Ferrous & Non-ferrous Metal	Dimension	IS:12427: 2001 (Cl. 3)
36.	Ferrous & Non-ferrous Metal	Dimension	IS:1363 (P-1): 2023 (Cl. 4)
37.	Ferrous & Non-ferrous Metal	Head soundness	IS 1367 (P-3): 2017 (Cl. 9.8)
38.	Ferrous & Non-ferrous Metal	Wedge load test	I S 1367 (P-3): 2017 (Cl. 9.1)
39.	Ferrous & Non-ferrous Metal	Breaking torque	ISO 898-7: 1992
40.	Ferrous & Non-ferrous Metal	Depth of complete decarburization in the thread	ISO 898-1: 2013
41.	Ferrous & Non-ferrous Metal	Dimensions	IS 1363 (P-2): 2023 (Cl. 4)
42.	Ferrous & Non-ferrous Metal	Dimensions	Cl. 4 of IS 1364 (P-1): 2023
43.	Ferrous & Non-ferrous Metal	Dimensions	Cl. 4 of IS 1364 (P-2): 2023
44.	Ferrous & Non-ferrous Metal	Height of non- decarburized thread zone	ISO 898-1: 2013
45.	Ferrous & Non-ferrous Metal	Lower yield strength	IS 1608 (P-1): 2022
46.	Ferrous & Non-ferrous Metal	Non- carburization	IS 1501 (P-1): 2025
47.	Bolt, screw & fasteners	Percentage elongation after fracture for machined test pieces	IS 1608 (P-1): 2022

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	Metals and Alloys		
48.	Ferrous & Non-ferrous Metal	Percentage reduction of area after fracture for machined test pieces	IS 1608 (P-1): 2022
49.	Ferrous & Non-ferrous Metal	Proof strength ratio	ISO 898-1: 2013
50.	Ferrous & Non-ferrous Metal	Stress at 0,2 % non-proportional elongation	IS 1608 (P-1): 2022
51.	Ferrous & Non-ferrous Metal	Stress under proof load	IS 1608 (P-1): 2022
52.	Ferrous & Non-ferrous Metal	Surface hardness	IS 1501 (P-1): 2025
53.	Ferrous & Non-ferrous Metal	Surface integrity	ISO 6157-1: 1988
54.	Ferrous & Non-ferrous Metal	Wedge Load test	ISO 898-1: 2017
55.	Ferrous & Non-ferrous Metal	Dimension	IS:13095: 2020
56.	Ferrous & Non-ferrous Metal	Disc strength test	IS:13095: 2020
57.	Ferrous & Non-ferrous Metal	Nominal Pressure	IS:13095: 2020
58.	Ferrous & Non-ferrous Metal	Manufacture	IS 18297: 2023
59.	Ferrous & Non-ferrous Metal	Sizes	IS 18297: 2023
60.	Ferrous & Non-ferrous Metal	Type	IS 18297: 2023
61.	Ferrous & Non-ferrous Metal	Dimension	IS:6418: 1971

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
62.	Ferrous & Non-ferrous Metal	Pressure and Temperature Rating	IS:6418: 1971
63.	Ferrous & Non-ferrous Metal	Brinell Hardness	IS:1500(P-1): 2019
64.	Ferrous & Non-ferrous Metal	Dimension	IS:1538: 1993
65.	Ferrous & Non-ferrous Metal	Hydrostatic Test	IS:1538: 1993 (Cl. No. 8)
66.	Ferrous & Non-ferrous Metal	Mass	IS:1538: 1993
67.	Ferrous & Non-ferrous Metal	Joint	IS:8329: 2000
68.	Ferrous & Non-ferrous Metal	Classification	IS:8329: 2000
69.	Ferrous & Non-ferrous Metal	Dimension	IS:8329: 2000
70.	Ferrous & Non-ferrous Metal	Hydro-static Test	IS:8329: 2000
71.	Ferrous & Non-ferrous Metal	Straightness	IS:8329: 2000
72.	Ferrous & Non-ferrous Metal	Deviation From Straight Line	IS:1536: 2023
73.	Ferrous & Non-ferrous Metal	Dimension	IS:1536: 2023
74.	Ferrous & Non-ferrous Metal	Hydrostatic Test	IS:1536: 2023 (Cl No. 12.1 and 12.2 Table 1 & 2)
75.	Ferrous & Non-ferrous Metal	Mass	IS:1536: 2023
76.	CONTINUOUS (PIANO) HINGES	Dimensions & Tolerances	IS 3818: 1992

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
77.	Continuous (piano) hinges	Finish	IS 3818: 1992
78.	Ferrous & Non-ferrous Metal	% Elongation	IS:1608(P-1): 2022
79.	Ferrous & Non-ferrous Metal	Ericson Cupping Test	IS:10175: 2018
80.	Ferrous & Non-ferrous Metal	Mass	IS 513 / IS 1079: 73 / IS 2721 / IS 1608 Part 1:2016
81.	Ferrous & Non-ferrous Metal		IS:9523: 2000
82.	Ferrous & Non-ferrous Metal	Joints	IS:9890: 1981
83.	Ferrous & Non-ferrous Metal	Dimension	IS 9523: 2000
84.	Ferrous & Non-ferrous Metal	Joints	IS:9523: 2000
85.	Ferrous & Non-ferrous Metal	proof load test	1367 p-3: 2017
86.	Ferrous & Non-ferrous Metal, product/Al, Cu, Brass	Tensile Strength	IS:1608 (P-1): 2022
87.	Ferrous/Non-Ferrous products/ Al, Cu, Brass	Elongation	IS:1608 (P-1): 2022
88.	Ferrous/Non-Ferrous products/Al, Cu, Brass	Reduction in Area	IS:1608 (P-1): 2022
89.	Ferrous/Non-Ferrous products/Al, Cu, Brass	Yield strength /0.2% proof Stress	IS:1608 (P-1): 2022
90.	Ferrous & Non-ferrous Metal	Dimension (Sizes)	IS 278: 2009 (Cl. 5)

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	Metals and Alloys		
91.	Ferrous & Non-ferrous Metal	Ductility Test	IS:1755: 2018
92.	Ferrous & Non-ferrous Metal	Bend Test	IS 2721: 2025 (Cl. 9.1.4)
93.	Ferrous & Non-ferrous Metal	Dimension	IS 2721: 2025 (Cl. 6)
94.	Ferrous & Non-ferrous Metal	Torsion Test	IS 1717: 2018
95.	Ferrous & Non-ferrous Metal	Wrapping Test	IS 1755: 2018
96.	Ferrous & Non-ferrous Metal	Dimension	IS 277: 2018 (Cl. 14 & 15)
97.	Ferrous & Non-ferrous Metal	Mass	IS 277: 2018 (Cl. 13)
98.	Ferrous & Non-ferrous Metal	Polymer coating thickness	IS 16014: 2024 (Cl. 12.5)
99.	Ferrous & Non-ferrous Metal	Dimension (Nominal Size)	IS 9890: 1981 (Cl. 3)
100.	Ferrous & Non-ferrous Metal	Hydrostatic Test	IS 210: 2009 (Cl. 18)
101.	Ferrous & Non-ferrous Metal	Transverse Test	IS 210: 2009 (Cl. 17)
102.	Ferrous & Non-ferrous Metal	Dimension (Size of test bar)	IS 210: 2009 (Cl. 13)
103.	Ferrous & Non-ferrous Metal	Dimensions	IS 16014: 2024 (Cl. 8)
104.	Ferrous & Non-ferrous Metal	Edge/selvage wire dia.	IS 16014: 2024
105.	Ferrous & Non-ferrous Metal	Lacing wire diameter	IS 16014: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
106.	Ferrous & Non-ferrous Metal	Mass of zinc coating	IS:6745-1972
107.	Ferrous & Non-ferrous Metal	Dimension	IS:4923: 2017
108.	Ferrous & Non-ferrous Metal	Mass	IS:4923: 2017
109.	Ferrous & Non-ferrous Metal	oiling	IS:4923: 2017
110.	Ferrous & Non-ferrous Metal	Protect of ends	IS:4923: 2017
111.	Ferrous & Non-ferrous Metal	straightness	IS:4923: 2017
112.	Ferrous & Non-ferrous Metal	Twist	IS:4923: 2017
113.	Ferrous & Non-ferrous Metal	Dimension	IS:7181: 1986
114.	Ferrous & Non-ferrous Metal	Hydro static Pressure	IS:7181: 1986
115.	Ferrous & Non-ferrous Metal	Mass	IS:7181: 1986
116.	Ferrous & Non-ferrous Metal	Permissible Deviation from a straight line	IS:7181: 1986
117.	Ferrous & Non-ferrous Metal	Ericson Cupping Test	IS:10175(p-1): 2018
118.	Ferrous & Non-ferrous Metal	Strain Ageing Test	IS:1079: 2017
119.	Ferrous & Non-ferrous Metal	Bend Test	IS 1599: 2023
120.	Ferrous & Non-ferrous Metal	Charpy Impact Test (at temp. - 20°C, 0°C and Ambient)	IS:1757(P-1): 2020
121.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 15647: 2006 (Cl. 11)

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	Metals and Alloys		
122.	Ferrous & Non-ferrous Metal	Dimension	IS 1730: 1989(Cl. 4, 5, 6 & 7)
123.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 4621:1975 (Cl. 4)
124.	Ferrous & Non-ferrous Metal	Types of operations	IS 4621: 1975 (Cl. 2)
125.	Ferrous & Non-ferrous Metal	Workmanship and finish	IS 4621:1975 (Cl. 7)
126.	Ferrous & Non-ferrous Metal	Dimensions	Cl. 4 of IS 9625: 2023
127.	Ferrous & Non-ferrous Metal	Dimensions	Cl. 7 of IS 1879: 2010
128.	Ferrous & Non-ferrous Metal	Threads	IS 554: 1999
129.	Ferrous & Non-ferrous Metal	Alignment Of threads	Cl. 8.2 of IS 1879: 2010
130.	Ferrous & Non-ferrous Metal	Chamfering	Cl. 8.3 of IS 1879: 2010
131.	Ferrous & Non-ferrous Metal	Compression Test	Cl. 12 of IS 1879: 2010
132.	Ferrous & Non-ferrous Metal	Dimensions and Dimension/Al Tolerances	Cl. 7 of IS 1879: 2010
133.	Ferrous & Non-ferrous Metal	Pressure Test	Cl. 11 of IS 1879: 2010
134.	Ferrous & Non-ferrous Metal	Bend Test	Cl. 9.3 of IS 280: 2006
135.	Ferrous & Non-ferrous Metal	Dimension	IS: 280: 2006
136.	Ferrous & Non-ferrous Metal	Dimensions	IS:1363 P-3: 2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
137.	Ferrous & Non-ferrous Metal	Dimensions	IS:14394: 1996
138.	Ferrous & Non-ferrous Metal	Dimensions	IS:6623: 2004
139.	Ferrous & Non-ferrous Metal	proof load test	IS1367 p-6: 2025
140.	Ferrous & Non-ferrous Metal	ANTI-SEIZING TEST	IS 6623: 2004
141.	Ferrous & Non-ferrous Metal	Dimensions	IS 1364 (P-6): 2025
142.	Ferrous & Non-ferrous Metal	General requirements	IS 1367 (P-1): 2014
143.	Ferrous & Non-ferrous Metal	General requirements	ISO 8992: 2005
144.	Ferrous & Non-ferrous Metal	Hardness	IS 1586 (P-1): 2025
145.	Ferrous & Non-ferrous Metal	Proof load	IS 1608 (P-1): 2022
146.	Ferrous & Non-ferrous Metal	Surface discontinuities	IS 1367 (P-10): 2002
147.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 362: 1991
148.	Ferrous & Non-ferrous Metal	Finish	IS 362: 1991
149.	Ferrous & Non-ferrous Metal	Performance Test	IS 362: 1991
150.	Ferrous & Non-ferrous Metal	Temperature Pressure Rating	IS:13159(P-1): 1993
151.	Ferrous & Non-ferrous Metal	Drop Impact Test	IS 17803: 2022
152.	Ferrous & Non-ferrous Metal	Manufacture and workmanship	IS 17803: 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
153.	Ferrous & Non-ferrous Metal	Materials	IS 17803: 2022
154.	Ferrous & Non-ferrous Metal	Pendulum Impact Test	IS 17803: 2022
155.	Ferrous & Non-ferrous Metal	Sheet Thickness	IS 17803: 2022
156.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 7534: 1985
157.	Ferrous & Non-ferrous Metal	General	IS 7534: 1985
158.	Ferrous & Non-ferrous Metal	Locking Bolts	IS 7534: 1985
159.	Ferrous & Non-ferrous Metal	Sizes	IS 7534: 1985
160.	Ferrous & Non-ferrous Metal	Finish	IS 16289: 2014
161.	Ferrous & Non-ferrous Metal	Manufacture	IS 16287: 2015
162.	Ferrous & Non-ferrous Metal	Shapes and dimensions	IS 16286: 2014
163.	Ferrous & Non-ferrous Metal	Workmanship	IS 16288: 2014
164.	Ferrous & Non-ferrous Metal	Dimensions and Tolerances	IS 10325: 2000
165.	Ferrous & Non-ferrous Metal	Handle	IS 10325: 2000
166.	Ferrous & Non-ferrous Metal	Handle Pull Test	IS 10325: 2000
167.	Ferrous & Non-ferrous Metal	Manufacture	IS 10325: 2000
168.	Ferrous & Non-ferrous Metal	Material	IS 10325: 2000

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	Metals and Alloys		
169.	Ferrous & Non-ferrous Metal	Sealing Compound	IS 10325: 2000
170.	Ferrous & Non-ferrous Metal	Supply Condition	IS 10325: 2000
171.	Ferrous & Non-ferrous Metal	Charpy Impact test	IS:1499: 1977
172.	Ferrous & Non-ferrous Metal	Dimension	IS 6603: 2024
173.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 12817: 2020
174.	Ferrous & Non-ferrous Metal	Finish	IS 12817: 2020
175.	Ferrous & Non-ferrous Metal	Types	IS 12817: 2020
176.	Ferrous & Non-ferrous Metal	Capacity	IS 16440: 2016
177.	Ferrous & Non-ferrous Metal	Construction	IS 16440: 2016
178.	Ferrous & Non-ferrous Metal	Shape & Dimension	IS 16440: 2016
179.	Ferrous & Non-ferrous Metal	0.2% Proof Stress	IS:1608(P-1): 2022
180.	Ferrous & Non-ferrous Metal	Bend Test	IS:6911: 2026
181.	Ferrous & Non-ferrous Metal	Ericson Cupping Test	IS:10175: 2018
182.	Ferrous & Non-ferrous Metal	Dimension and tolerance	IS:17875: 2022
183.	Ferrous & Non-ferrous Metal	Flaring test	IS:17875: 2022
184.	Ferrous & Non-ferrous Metal	Flattening test.	IS:2328: 2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
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185.	Ferrous & Non-ferrous Metal	Leak tightness test.	IS:17875: 2022
186.	Ferrous & Non-ferrous Metal	Mass	IS:17875: 2022
187.	Ferrous & Non-ferrous Metal	Repair by welding or grinding.	IS:17875: 2022
188.	Ferrous & Non-ferrous Metal	Transverse tension test	IS:17875: 2022
189.	Ferrous & Non-ferrous Metal	Workmanship finish and appearance.	IS:17875: 2022
190.	Ferrous & Non-ferrous Metal	Camber	IS:5522: 2014
191.	Ferrous & Non-ferrous Metal	Dimension	IS:5522: 2014
192.	Ferrous & Non-ferrous Metal	Ericson Cupping Test	IS:10175: 2018
193.	Ferrous & Non-ferrous Metal	Camber	IS 5522: 2014
194.	Ferrous & Non-ferrous Metal	Dimensions	IS 5522: 2014
195.	Ferrous & Non-ferrous Metal	Freedom from defects	IS 5522: 2014
196.	Ferrous & Non-ferrous Metal	Surface Finish	IS 5523: 1983
197.	Ferrous & Non-ferrous Metal	Construction and workmanship	IS:13983: 1994
198.	Ferrous & Non-ferrous Metal	Dimension	IS:13983: 1994
199.	Ferrous & Non-ferrous Metal	over flow	IS:13983: 1994

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
200.	Ferrous & Non-ferrous Metal	visual Examination	IS:13983: 1994
201.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 15834: 2020
202.	Ferrous & Non-ferrous Metal	Finish	IS 15834: 2020
203.	Ferrous & Non-ferrous Metal	Manufacture	IS 15834: 2020
204.	Ferrous & Non-ferrous Metal	Sizes	IS 15834: 2020
205.	Ferrous & Non-ferrous Metal	Ball Drop Test	IS 14756: 2024
206.	Ferrous & Non-ferrous Metal	Coating Thickness Test (for Copper Deposit)	IS 14756: 2024
207.	Ferrous & Non-ferrous Metal	Dry Heat Test (for Cladded Utensils Only)	IS 14756: 2024
208.	Ferrous & Non-ferrous Metal	Fragmentation Test	IS 14756: 2024
209.	Ferrous & Non-ferrous Metal	Free Fall Test	IS 14756: 2024
210.	Ferrous & Non-ferrous Metal	Material	IS 14756: 2024
211.	Ferrous & Non-ferrous Metal	Mechanical Shock Test (for Cladded Utensils Only)	IS 14756: 2024
212.	Ferrous & Non-ferrous Metal	Nominal Capacity Test	IS 14756: 2024
213.	Ferrous & Non-ferrous Metal	Shapes and dimensions	IS 14756: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
214.	Ferrous & Non-ferrous Metal	Thermal Shock Test	IS 14756: 2024
215.	Ferrous & Non-ferrous Metal	Thermal Shock Test (for Cladded Utensils Only)	IS 14756: 2024
216.	Ferrous & Non-ferrous Metal	Workmanship and finish	IS 14756: 2024
217.	Ferrous & Non-ferrous Metal	Dimension. And Tolerances	IS:17876: 2022
218.	Ferrous & Non-ferrous Metal	Flange test	IS:2330: 2011
219.	Ferrous & Non-ferrous Metal	Leak tightness test	IS:17876: 2022
220.	Ferrous & Non-ferrous Metal	Mass	IS:17876: 2022
221.	Ferrous & Non-ferrous Metal	Repair by welding or grinding	IS:17876: 2022
222.	Ferrous & Non-ferrous Metal	Reverse flattening test	IS:17876: 2022
223.	Ferrous & Non-ferrous Metal	Transverse tension test	IS:17876: 2022
224.	Ferrous & Non-ferrous Metal	workmanship finish and appearance	IS:17876: 2022
225.	Ferrous & Non-ferrous Metal	Dimension	IS:6528: 2024
226.	Ferrous & Non-ferrous Metal	Reduction %	IS:1608(P-1): 2022
227.	Ferrous & Non-ferrous Metal	Reverse Bend Test (at ambient temperature)	IS:1716: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
228.	Ferrous & Non-ferrous Metal	Torsion Test	IS:1717: 2018
229.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 1341: 2018
230.	Ferrous & Non-ferrous Metal	Finish	IS 1341: 2018
231.	Ferrous & Non-ferrous Metal	Types	IS 1341: 2018
232.	Ferrous & Non-ferrous Metal	Bend test	IS 723: 2023
233.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 723: 2023
234.	Ferrous & Non-ferrous Metal	Finish	IS 723: 2023
235.	Ferrous & Non-ferrous Metal	General requirements	IS 723: 2023
236.	Ferrous & Non-ferrous Metal	Dimension	IS:3589: 2001
237.	Ferrous & Non-ferrous Metal	Guided Bend Test	IS:3589: 2001
238.	Ferrous & Non-ferrous Metal	Hydro static Test Pressure	IS:3589: 2001
239.	Ferrous & Non-ferrous Metal	Joints	IS:3589: 2001
240.	Ferrous & Non-ferrous Metal	Mass per meter	IS:3589: 2001
241.	Ferrous & Non-ferrous Metal	Straightness	IS:3589: 2001
242.	Ferrous & Non-ferrous Metal	Crushing Test	IS:3601: 2006
243.	Ferrous & Non-ferrous Metal	Dimension	IS:2039 (P-1 to 3): 1991

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
244.	Ferrous & Non-ferrous Metal	Drift Expansion Test	IS:2335: 2005
245.	Ferrous & Non-ferrous Metal	Fin Height	IS:2039(P-1 to 3): 1991
246.	Ferrous & Non-ferrous Metal	Straightness Test	IS:2039(P-1 to 3): 1991
247.	Ferrous & Non-ferrous Metal	Drift Expansion Test	IS:2335: 2005
248.	Ferrous & Non-ferrous Metal	Mass	IS:9295: 2025
249.	Ferrous & Non-ferrous Metal	Straightness	IS:9295: 2025
250.	Ferrous & Non-ferrous Metal	Bend Test	IS:2329: 2005
251.	Ferrous & Non-ferrous Metal	Crushing Test	IS:3601: 2006
252.	Ferrous & Non-ferrous Metal	Dimension	IS:3601: 2006
253.	Ferrous & Non-ferrous Metal	Drift Expansion Test	IS:2335: 2005
254.	Ferrous & Non-ferrous Metal	Straightness	IS:3601: 2006
255.	Ferrous & Non-ferrous Metal	Threads	IS:3601: 2006
256.	Ferrous & Non-ferrous Metal	Cold Bend Test	IS:2329: 2005
257.	Ferrous & Non-ferrous Metal	Dimension	IS:1161: 2014
258.	Ferrous & Non-ferrous Metal	Mass	IS:1161: 2014
259.	Ferrous & Non-ferrous Metal	Straightness	IS:1161: 2014

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
260.	Ferrous & Non-ferrous Metal	Dimension	IS:4270: 2001
261.	Ferrous & Non-ferrous Metal	Hydrostatic Test	Cl. No. 8 of IS:4270: 2001
262.	Ferrous & Non-ferrous Metal	Joints	IS:4270: 2001
263.	Ferrous & Non-ferrous Metal	Mass	IS:4270: 2001
264.	Ferrous & Non-ferrous Metal	Protect of Ends	IS:4270: 2001
265.	Ferrous & Non-ferrous Metal	Straightness Test	IS:4270: 2001
266.	Ferrous & Non-ferrous Metal	Threads Alignment Test	IS:4270: 2001
267.	Ferrous & Non-ferrous Metal	Dimension	IS:1239(P-2): 2011
268.	Ferrous & Non-ferrous Metal	Drift Expansion Test	IS:2335: 2005
269.	Ferrous & Non-ferrous Metal	Joint	IS:1239(P-2): 2011
270.	Ferrous & Non-ferrous Metal	Leak Proof Test	IS:8999: 2003
271.	Ferrous & Non-ferrous Metal	Mass	IS:1239(P-2): 2011
272.	Ferrous & Non-ferrous Metal	Dimension	IS:1239(P-1): 2004
273.	Ferrous & Non-ferrous Metal	Drift Expanding Test	IS:2335: 2005
274.	Ferrous & Non-ferrous Metal	Joint	IS:8999: 2003
275.	Ferrous & Non-ferrous Metal	Leak Proof Test	IS:1239(P-1): 2004

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
276.	Ferrous & Non-ferrous Metal	Mass	IS:1239(P-1): 2004
277.	Ferrous & Non-ferrous Metal	Bend Test	IS:4454(P-1): 2001
278.	Ferrous & Non-ferrous Metal	Deep etch Test coiling and stretching test	IS:4454(P-1): 2001
279.	Ferrous & Non-ferrous Metal	Dimension	IS:4454(P-1): 2001
280.	Ferrous & Non-ferrous Metal	Torsion Test	IS:1717: 2018
281.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 3843: 1995
282.	Ferrous & Non-ferrous Metal	Finish	IS 3843: 1995
283.	Ferrous & Non-ferrous Metal	Types	IS 3843: 1995
284.	Ferrous & Non-ferrous Metal	0.2% proof load/ Yield strength	IS 1608 Part 1: 2022
285.	Ferrous & Non-ferrous Metal	Breaking strength	IS 14268 / IS 1608 Part 1: 2022
286.	Ferrous & Non-ferrous Metal	Dimension (diameter)	IS 14268: 2022
287.	Ferrous & Non-ferrous Metal	Elongation	IS 14268/IS1608 (P-1): 2022
288.	Ferrous & Non-ferrous Metal	Mass	IS 14268: 2022
289.	Ferrous & Non-ferrous Metal	Ball	IS 17954: 2023
290.	Ferrous & Non-ferrous Metal	Ball Cage	IS 17954: 2023



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
291.	Ferrous & Non-ferrous Metal	Ball Spacer	IS 17954: 2023
292.	Ferrous & Non-ferrous Metal	Bumper	IS 17954: 2023
293.	Ferrous & Non-ferrous Metal	Classification	IS 17954: 2023
294.	Ferrous & Non-ferrous Metal	Deflection test	IS 17954: 2023
295.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 17954: 2023
296.	Ferrous & Non-ferrous Metal	Durability test	IS 17954: 2023
297.	Ferrous & Non-ferrous Metal	End Stopper	IS 17954: 2023
298.	Ferrous & Non-ferrous Metal	Finish	IS 17954: 2023
299.	Ferrous & Non-ferrous Metal	General test requirements	IS 17954: 2023
300.	Ferrous & Non-ferrous Metal	Horizontal load test	IS 17954: 2023
301.	Ferrous & Non-ferrous Metal	Internal Channel	IS 17954: 2023
302.	Ferrous & Non-ferrous Metal	Latch	IS 17954: 2023
303.	Ferrous & Non-ferrous Metal	Mounting Holes	IS 17954: 2023
304.	Ferrous & Non-ferrous Metal	Outer Channel	IS 17954: 2023
305.	Ferrous & Non-ferrous Metal	Rivets	IS 17954: 2023
306.	Ferrous & Non-ferrous Metal	Slam test	IS 17954: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
307.	Ferrous & Non-ferrous Metal	Track	IS 17954: 2023
308.	Ferrous & Non-ferrous Metal	Vertical load test	IS 17954: 2023
309.	Ferrous & Non-ferrous Metal	Dimension	IS:11722: 1986
310.	Ferrous & Non-ferrous Metal	Nominal Pressure	IS:13095: 2020
311.	Ferrous & Non-ferrous Metal	Straightness	IS:11722: 1986
312.	Ferrous & Non-ferrous Metal	Dimensions	IS:2016: 1967
313.	Ferrous & Non-ferrous Metal	Dimensions.	IS:6649: 1985
314.	Ferrous & Non-ferrous Metal	Permanent load test	IS:6735: 1994
315.	Ferrous & Non-ferrous Metal	Permanent set test	IS:6735: 1994
316.	Ferrous & Non-ferrous Metal	Twist test	IS:6735: 1994
317.	Ferrous & Non-ferrous Metal	Reverse bend test	IS:1716: 2023
318.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 7902: 2001
319.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 7902: 2001
320.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 6754: 1972
321.	Ferrous & Non-ferrous Metal	Shape & size	IS 6754: 1972
322.	Ferrous & Non-ferrous Metal	Air Pressure	IS:1825: 2025

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
323.	Ferrous & Non-ferrous Metal	Flattening Test	ISO 8492: 2013
324.	Ferrous & Non-ferrous Metal	Flattening Test	ASTM A370 – 24
325.	Ferrous & Non-ferrous Metal	Capacity	IS:1825: 2025
326.	Ferrous & Non-ferrous Metal	Dimension	IS:1825: 2025
327.	Ferrous & Non-ferrous Metal	Drop Test	IS:1825: 2025
328.	Ferrous & Non-ferrous Metal	Dimension and tolerances	IS 7092 (P-2): 1987
329.	Ferrous & Non-ferrous Metal	Hydrostatic test	Cl. No. 7.4 IS 7092 (P-1): 1992
330.	Ferrous & Non-ferrous Metal	Length	IS 7092 (P-2): 1987
331.	Ferrous & Non-ferrous Metal	Dimension and tolerances	IS 7092 (P-1): 1992
332.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 617: 2024
333.	Ferrous & Non-ferrous Metal	Tolerances on dimensions of castings	IS 617: 2024
334.	Ferrous & Non-ferrous Metal	Shape & size	IS 4026: 2023
335.	Ferrous & Non-ferrous Metal	Dimensions	IS 9612: 1980
336.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 9612: 1980
337.	Ferrous & Non-ferrous Metal	Freedom from defects	IS 617: 1994

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
338.	Ferrous & Non-ferrous Metal	Tolerances on dimensions of castings	IS 617: 1994
339.	Ferrous & Non-ferrous Metal	Dimension	IS:513(P-1&2): 2016
340.	Ferrous & Non-ferrous Metal	Ericson Cupping Test	IS:10175: 2018
341.	Ferrous & Non-ferrous Metal	Dimension	IS:778: 1984
342.	Ferrous & Non-ferrous Metal	Depth and pitch of corrugation	IS 1254: 2025
343.	Ferrous & Non-ferrous Metal	Dimensions and tolerances	IS 1254: 2025
344.	Ferrous & Non-ferrous Metal	Freedom from defects	IS 1254: 2025
345.	Ferrous & Non-ferrous Metal	Length	IS 1254: 2025
346.	Ferrous & Non-ferrous Metal	Profile	IS 1254: 2025
347.	Ferrous & Non-ferrous Metal	Squareness	IS 1254: 2025
348.	Ferrous & Non-ferrous Metal	Width	IS 1254: 2025
349.	Ferrous & Non-ferrous Metal	Dimension	IS 5484: 2023
350.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 5484: 2023
351.	Ferrous & Non-ferrous Metal	Dimension	IS:319: 2007
352.	Ferrous & Non-ferrous Metal	Vickers Hardness	IS:1501(P-1): 2025



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
353.	Ferrous & Non-ferrous Metal	Dimension	IS:320: 1980
354.	Ferrous & Non-ferrous Metal	Dimension	IS:432(P-1): 1982
355.	Ferrous & Non-ferrous Metal	Dimension	IS:432(P-2): 1982
356.	Ferrous & Non-ferrous Metal	Mass	IS:432(P-1): 1982
357.	Ferrous & Non-ferrous Metal	Tensile Strength	IS:1608(P-1): 2022
358.	Ferrous & Non-ferrous Metal	Brinell hardness	IS:1500(p-1): 2019
359.	Ferrous & Non-ferrous Metal	Rockwell hardness (Scale b &c)	IS:1586(p-2): 2025
360.	Ferrous & Non-ferrous Metal	bend Test	IS:1599: 2023
361.	Ferrous & Non-ferrous Metal	bend Test	IS:2062: 2011
362.	Ferrous & Non-ferrous Metal	Structural Elongation	IS:1608(p-1): 2022
363.	Ferrous & Non-ferrous Metal	Structural Pull-out Test	IS:2770(P-1): 1967
364.	Ferrous & Non-ferrous Metal	Structural Re-bend Test	IS:1786: 2008
365.	Ferrous & Non-ferrous Metal	Structural Tensile Strength	IS:1608 (p-1): 2022
366.	Ferrous & Non-ferrous Metal	Structural Dimension	IS 2830: 2012
367.	Ferrous & Non-ferrous Metal	Structural Dimension	IS 2830: 2012
368.	Ferrous & Non-ferrous Metal	Structural Mass	IS 1786: 2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
369.	Ferrous & Non-ferrous Metal	Structural Mass	IS 1786: 2008
370.	Ferrous & Non-ferrous Metal	Total percentage Structural of elongation at maximum force (agt)	IS1608(P-1): 2022
371.	Ferrous & Non-ferrous Metal	Total percentage Structural of elongation at maximum force (agt) Test (75%,60% & close flattening)	IS1608(P-1): 2022
372.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 1284: 1975
373.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 1284: 1975
374.	Ferrous & Non-ferrous Metal	Dimensions	IS 734: 1975
375.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 734: 1975
376.	Ferrous & Non-ferrous Metal	Dimensions	IS 733: 2025
377.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 733: 2025
378.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 5082: 1998
379.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 5082: 1998
380.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 736: 1986
381.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 736: 1986

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
382.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 740: 1977
383.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 740: 1977
384.	Ferrous & Non-ferrous Metal	Dimensions	IS 737: 2024
385.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 737: 2024
386.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 739: 1992
387.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 739: 1992
388.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 1285: 2023
389.	Ferrous & Non-ferrous Metal	Freedom from defect	IS 1285: 2023
390.	Ferrous & Non-ferrous Metal	Finish	IS 1660: 2024
391.	Ferrous & Non-ferrous Metal	Ball Drop Test	IS 1660: 2024
392.	Ferrous & Non-ferrous Metal	Classification	IS 1660: 2024
393.	Ferrous & Non-ferrous Metal	Fragmentation Test	IS 1660: 2024
394.	Ferrous & Non-ferrous Metal	Free Fall Test	IS 1660: 2024
395.	Ferrous & Non-ferrous Metal	Ground Nut Oil Test for Leakage	IS 1660: 2024



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
396.	Ferrous & Non-ferrous Metal	Handles	IS 1660: 2024
397.	Ferrous & Non-ferrous Metal	Nomin/al capacity	IS 1660: 2024
398.	Ferrous & Non-ferrous Metal	Performance Test	IS 1660: 2024
399.	Ferrous & Non-ferrous Metal	Shape	IS 1660: 2024
400.	Ferrous & Non-ferrous Metal	Shape and dimensions	IS 1660: 2024
401.	Ferrous & Non-ferrous Metal	Thermal Shock Test	IS 1660: 2024
402.	Ferrous & Non-ferrous Metal	Thickness of the glass	IS 1660: 2024
403.	Ferrous & Non-ferrous Metal	Thickness of the rim	IS 1660: 2024
404.	Ferrous & Non-ferrous Metal	Thickness of the sheet	IS 1660: 2024
405.	Ferrous & Non-ferrous Metal	Thickness of the stainless-steel lid	IS 1660: 2024
406.	Ferrous & Non-ferrous Metal	Workmanship	IS 1660: 2024
407.	Ferrous & Non-ferrous Metal	Endurance test	IS 14912: 2001
408.	Ferrous & Non-ferrous Metal	Essential requirements	IS 14912: 2001
409.	Ferrous & Non-ferrous Metal	Finish	IS 14912: 2001
410.	Ferrous & Non-ferrous Metal	Performance Requirements	IS 14912: 2001

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
411.	Ferrous & Non-ferrous Metal	Axial Strength	IS 4992: 2024
412.	Ferrous & Non-ferrous Metal	Classification	IS 4992: 2024
413.	Ferrous & Non-ferrous Metal	Dimensions	IS 4992: 2024
414.	Ferrous & Non-ferrous Metal	Dimensions & Tolerances	IS 208: 2020
415.	Ferrous & Non-ferrous Metal	Durability Test	IS 4992: 2024
416.	Ferrous & Non-ferrous Metal	Finish	IS 208: 2020
417.	Ferrous & Non-ferrous Metal	Pencil Hardness Test	IS 208: 2020
418.	Ferrous & Non-ferrous Metal	Type	IS 208: 2020
419.	Ferrous & Non-ferrous Metal	Endurance Test	IS 3564: 2025
420.	Ferrous & Non-ferrous Metal	Performance Requirements	IS 3564: 2025
421.	Ferrous & Non-ferrous Metal	Finish	IS 3564: 2025
422.	Ferrous & Non-ferrous Metal	Performance Requirements	IS 3564: 2025
423.	Ferrous & Non-ferrous Metal	Types	IS 3564: 2025
424.	Ferrous & Non-ferrous Metal	Dimension and tolerances	IS 17706: 2022
425.	Ferrous & Non-ferrous Metal	Diameter	IS 4386: 2022



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
426.	Ferrous & Non-ferrous Metal	Manufacture, workmanship and finish	IS 4386: 2022
427.	Ferrous & Non-ferrous Metal	Weight	IS 4386: 2022
428.	Ferrous & Non-ferrous Metal	Shape and design	IS 9131: 2026
429.	Ferrous & Non-ferrous Metal	Types	IS 9131: 2026
430.	Ferrous & Non-ferrous Metal	Workmanship and finish	IS 9131: 2026
431.	Ferrous & Non-ferrous Metal	Construction and workmanship	IS 2463: 2022
432.	Ferrous, Non-ferrous Metal & welded specimen	Bend Test/ Root Bend/ Face Bend/ Side Bend	IS:3600 (P-5): 2018
433.	Ferrous, Non-ferrous Metal & welded specimen	bend test/ root bend/face bend/side bend	ASME(SEC-IX): 2017
434.	Ferrous product & welded specimen	bend test/root bend/face bend/side bend	IS:3600(p-7): 1985
435.	Ferrous & Non-ferrous Metal product& welded specimen	bend test/root bend /face bend/side bend	BS-EN-ISO- 5173: 2012
436.	Ferrous & Non-ferrous Metal	Dimension & Tolerance	IS 1730: 1989
437.	Brass Bars, Rods and section	Mercurous Nitrate test	IS 2305: 1988
438.	Structural steel Billet, Bloom,	Macro etching test	IS 11371: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
	slabs and other alloy products		
439.	Structural steel Billet, Bloom, slabs and other alloy products	Sulphur print test	IS 12037: 2023
440.	Ferrous & Non-ferrous Metal	Decarburization Test	IS 6396: 2023
441.	Ferrous and non-ferrous metals	Grain size	IS:4748: 2021
442.	Ferrous, Non-ferrous Metal & grey cast iron	Microstructure test	IS:7754: 1975



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
1.	Coarse Aggregate	10% fine value	IS: 2386(P-4): 1963
2.	Coarse Aggregate	Deleterious Material	IS: 2386(P-1) & P-2:1963
3.	Coarse Aggregate	Elongation Index	IS: 2386(P-1): 1963
4.	Coarse Aggregate	Flakiness Index	IS:2386(P-1): 1963
5.	Coarse Aggregate	Impact Value	IS: 2386(P-4): 1963
6.	Coarse Aggregate	Loss Angeles Abrasion Test	IS: 2386(P-4): 1963
7.	Coarse Aggregate	Moisture content	IS 2386 Part 3: 1963
8.	Coarse Aggregate	Sieve Analysis (Sieve size 2.36 mm to 100mm)	IS: 2386(P-1): 1963
9.	Coarse Aggregate	Soundness	IS: 2386(P-5): 1963
10.	Coarse Aggregate	Specific Gravity	IS: 2386(P-3): 1963 (Cl. 2)
11.	Coarse Aggregate	Water Absorption	IS: 2386(P-3): 1963 (Cl. 2)
12.	coarse aggregates	crushing value	IS:2386 (P-4): 1963 (Cl. 2)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
13.	Fine Aggregate	Bulk Density	IS: 2386(P- 3): 1963 (Cl. 3)
14.	Fine Aggregate	Deleterious Material	IS: 2386 (P-2): 1963
15.	Fine aggregate	Sieve Analysis (Sieve size 150 micron to 10 mm)	Cl. 2 of IS: 2386(P-1): 1963
16.	Fine Aggregate	Silt Content	Cl. 3 of IS: 2386(P-2): 1963
17.	Fine Aggregate	Soundness	IS: 2386(P-5): 1963
18.	Fine Aggregate	Specific Gravity	Cl. 2 of IS: 2386(P-3): 1963
19.	Fine Aggregate	Water absorption	Cl. 2 of IS: 2386(P-3): 1963
20.	Paver Block	Dimension (higher Width)	IS 15658 (Annex- B): 2021
21.	Paver Block	Abrasion resistance	IS:15658: 2021(Annex-E)
22.	Paver Block	Arris / Chamber (Width/Depth)	IS 15658: 2021 (Annex- B)
23.	Paver Block	Aspect ratio	IS 15658: 2021(Annex- B)
24.	Paver Block	Breaking Load	IS 15658: 2021(Annex-G)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
25.	Paver Block	Compressive strength	IS:15658: 2021 (Annex-D)
26.	Paver Block	Dimension (Lower Width)	IS 15658: 2021 (Annex- B)
27.	Paver Block	Dimension (Thickness	IS:15658: 2021 (Annex-B)
28.	Paver Block	Dimension: Length	IS 15658: 2021 (Annex- B)
29.	Paver Block	Flexural Strength	IS 15658: 2021 (Annex-G)
30.	Paver Block	Freeze-thaw durability	IS 15658: 2021(Annex- H)
31.	Paver Block	Plan area/ Wearing face	IS 15658: 2021(Annex- B)
32.	Paver Block	Squareness	IS 15658: 2021(Annex- B)
33.	Paver Block	Tensile Splitting Strength	IS 15658: 2021 (Annex-F)
34.	Paver Block	Thickness	IS 15658: 2021 (Annex- B)
35.	Paver Block	Thickness of wearing layer	IS 15658: 2021 (Annex- B)
36.	Paver Block	Water Absorption	IS:15658: 2021 (Annex-C)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
37.	Fusion welded joints and weld metal in steel	Macro and micro examination	IS:3600 (P-9): 2022
38.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Bituminous, Similar Base Coating or any other coating/Epoxy coating/Cement mortar lining	IS:8329: 2000
39.	Cast Iron fittings for pressure pipes for water gas and sewage.	Bituminous, Similar Base Coating or any other coating/Epoxy coating/Cement mortar lining	IS:1538: 1993
40.	Centrifugally cast (SPUN) Iron pressure pipes for water gas and sewage.	Bituminous, Similar Base Coating or any other coating/Epoxy coating/Cement mortar lining	IS:1536: 2023
41.	Ductile iron fittings for pressure pipe for water gas and sewage.	Bituminous, Similar Base Coating or any other coating/Epoxy coating/Cement mortar lining	IS:9523: 2000
42.	Horizontally Cast Iron Double flanged pipes for water gas and sewage	Bituminous, Similar Base Coating or any other coating/Tar	IS:7181: 1986
43.	steel pipes for water and sewage	Bituminous, Similar Base Coating or any other	IS:3589: 2001

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
		coating/Epoxy coating/cement mortar lining	
44.	Steel tubes used for water wells.	Bituminous, Similar Base coating / epoxy coating/zinc coating.	IS:4270: 2001
45.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Bituminous, Similar Base Coating or any other coating/Epoxy coating/Cement mortar lining	IS:8329: 2000
46.	Cast Iron fittings for pressure pipes for water gas and sewage.	Bituminous, Similar Base Coating or any other coating/Epoxy coating	IS:1538: 1993
47.	Centrifugally cast (SPUN) Iron pressure pipes for water gas and sewage.	Bituminous, Similar Base Coating or any other coating/Epoxy coating	IS:1536: 2023
48.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Cement mortar lining	IS:8329: 2000 Annex-B
49.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Bituminous Coating	IS:8329: 2000 Annex-C



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
50.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Epoxy Coating	IS:101(P- 3/Sec.2): 1989
51.	Centrifugally cast (SPUN) Ductile iron pressure pipes for water gas and sewage	Primer Coating	IS:101(P- 3/Sec.2): 1989
52.	Cast Iron fittings for pressure pipes for water gas and sewage.	Bituminous Coating	IS:1538: 1993
53.	Centrifugally cast (SPUN) Iron pressure pipes for water gas and sewage.	Bituminous Coating	IS:1536: 2023
54.	Ductile iron fittings for pressure pipe for water gas and sewage.	Cement mortar lining	IS:9523: 2000
55.	Ductile iron fittings for pressure pipe for water gas and sewage.	Bituminous Coating	IS:9523: 2000
56.	Ductile iron fittings for pressure pipe for water gas and sewage.	Epoxy Coating	IS:101(P- 3/Sec.2): 1989
57.	Ductile iron fittings for pressure pipe for water gas and sewage.	Primer Coating	IS:101(P- 3/Sec.2): 1989

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
58.	Horizontally Cast Iron Double flanged pipes for water gas and sewage	Bituminous Coating	IS:7181: 1986
59.	steel pipes for water and sewage	Cement mortar lining	IS:3589: 2001
60.	steel pipes for water and sewage	Bituminous Coating	IS:3589: 2001
61.	steel pipes for water and sewage	Epoxy Coating	IS:101(P- 3/Sec.2): 1989
62.	steel pipes for water and sewage	Primer Coating	IS:101(P- 3/Sec.2): 1989



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
1.	GI Pipe, sheet, Bars, wires and other product.	Mass of Zinc Coating	IS 6745: 1972
2.	Nut, bolt, screw, sheet, pipes, Fasteners and other products.	Zinc Coating	ISO 2178: 2016
3.	Aluminium Section	Anodic Coating	IS:5523 1983 (Stripping method)
4.	Cast Iron	Carbon	IS:12308(p-11): 1991
5.	Cast Iron	Carbon Equivalent	ATH-Mohali SOP 03, Issue No 1 dated: 09.03.18
6.	Cast Iron	Chromium	IS:12308(p-8): 1997
7.	Cast Iron	Manganese	IS:12308(p-10): 1991
8.	Cast Iron	Nickel	IS:12308(p-7): 1991
9.	cast iron	Phosphorus	IS:12308(p-5): 1991
10.	Cast Iron	Silicon	IS:12308(p-6): 1991
11.	Cast Iron	Sulphur	IS:12308(p-2): 1987
12.	Metals & Alloys (Low Alloy Steel)	Carbon	IS 228(p-1): 1987
13.	Metals & Alloys (Low Alloy Steel)	Carbon Equivalent	ATH-MOHALI/SOP-03 issue no 1, dated: 2022



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
14.	Metals & Alloys (Low Alloy Steel)	Manganese	IS 228 (p-2): 1987
15.	Metals & Alloys (Low Alloy Steel)	Phosphorus	IS 228 (p-3): 1987
16.	Metals & Alloys (Low Alloy Steel)	Silicon	IS 228 (p-8): 1989
17.	Metals & Alloys (Low Alloy Steel)	Sulphur	IS 228 (p-9): 1989
18.	Metals & Alloys (Low Alloy Steel)	Sulphur+ Phosphorus	ATH-MOHALI/SOP 02 issue no 1, dtd: 2022
19.	Aluminium Alloy	Chromium (Cr)	ASTM E 1251: 2017
20.	Aluminium Alloy	Cobalt (Co)	ASTM E 1251: 2017
21.	Aluminium Alloy	Copper (Cu)	ASTM E 1251: 2017
22.	Aluminium Alloy	Iron (Fe)	ASTM E 1251: 2017
23.	Aluminium Alloy	Lead (Pb)	ASTM E 1251: 2017
24.	Aluminium Alloy	Magnesium (Mn)	ASTM E 1251: 2017
25.	Aluminium Alloy	Manganese (Mn)	ASTM E 1251: 2017
26.	Aluminium Alloy	Nickel (Ni)	ASTM E 1251: 2017
27.	Aluminium Alloy	Silicon (Si)	ASTM E 1251: 2017

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
28.	Aluminium Alloy	Tin (Sn)	ASTM E 1251: 2017
29.	Aluminium Alloy	Titanium (Ti)	ASTM E 1251: 2017
30.	Aluminium alloy	Vanadium (as V)	ASTM E1251: 2017
31.	Aluminium Alloy	Zinc (Zn)	ASTM E 1251: 2017
32.	Aluminium and its alloys	Aluminium as Al	ASTM E 1251: 2017
33.	Aluminium products	Boron as B	ASTM E 1251: 2017
34.	Aluminium products	Gallium as Ga	ASTM E 1251: 2017
35.	Low alloy steel	Aluminium (Al)	ASTM E-415 :2021 (by OES)
36.	Low alloy steel	Aluminium (Al)	IS 8811): 1998 (by OES)
37.	Low alloy steel	Arsenic (As)	ASTM E-415:2021 (by OES)
38.	Low alloy steel	Arsenic (As)	IS 8811: 1998 (by OES)
39.	Low alloy steel	Boron (as B)	ASTM E-415:2021 (by OES)
40.	Low alloy steel	Boron(B)	IS 8811 1998 (by OES):
41.	Low alloy steel	Carbon(C)	ASTM E-415:2021 (by OES):
42.	Low alloy steel	Carbon(C)	IS 8811: 1998 (by OES)
43.	Low alloy steel	Chromium (Cr)	ASTM E-415: 2021 (by OES)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
44.	Low alloy steel	Chromium (Cr)	IS 8811: 1998 (by OES)
45.	Low alloy steel	Cobalt (Co)	ASTM E-415: 2021 (by OES)
46.	Low alloy steel	Cobalt (Co)	IS 8811: 1998 (by OES)
47.	Low alloy steel	Copper (Cu)	ASTM E-415: 2021 (by OES)
48.	Low alloy steel	Copper (Cu)	IS 8811: 1998 (by OES)
49.	Low alloy steel	Manganese (Mn)	ASTM E-415: 2021 (by OES)
50.	Low alloy steel	Manganese (Mn)	IS 8811: 1998 (by OES)
51.	Low alloy steel	Molybdenum (Mo)	IS 8811: 1998 (by OES)
52.	Low alloy steel	Molybdenum (Mo)	ASTM E-415: 2021 (by OES)
53.	Low alloy steel	Nickel (Ni)	ASTM E-415: 2021 (by OES)
54.	Low alloy steel	Nickel (Ni)	IS 8811: 1998 (by OES)
55.	Low alloy steel	Nitrogen(N)	ASTM E-415: 2021 (by OES)
56.	Low alloy steel	Phosphorus(P)	ASTM E-415: 2021 (by OES)
57.	Low alloy steel	Phosphorus(P)	IS 8811: 1998 (by OES)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
58.	Low alloy steel	Silicon (Si)	IS 8811: 1998 (by OES)
59.	Low alloy steel	Silicon (Si)	ASTM E-415: 2021 (by OES)
60.	Low alloy steel	Sulphur (S)	IS 8811: 1998 (by OES)
61.	Low alloy steel	Sulphur(S)	ASTM E-415: 2021 (by OES)
62.	Low alloy steel	Tin (Sn)	ASTM E-415: 2021 (by OES)
63.	Low alloy steel	Tin (Sn)	IS 8811: 1998 (by OES)
64.	Low alloy steel	Titanium (Ti)	ASTM E-415: 2021 (by OES)
65.	Low alloy steel	titanium (Ti)	IS 8811: 1998 (by OES)
66.	Low alloy steel	Zirconium (Zr)	ASTM E-415: 2021 (by OES)
67.	Low alloy steel	Zirconium (Zr)	IS 8811: 1998 (by OES)
68.	Brass	Aluminium	IS:3685: 1966
69.	Brass	Antimony	IS:440: 1964
70.	Brass	Arsenic	IS:440: 1964
71.	Brass	Copper	IS:3685: 1966
72.	Brass	Iron	IS:3685: 1966
73.	Brass	Lead	IS:3685: 1966

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
74.	Brass	Nickel	IS:3685: 1966
75.	Brass	Phosphorous	IS:3685: 1966
76.	Brass	Silicon	IS:3685: 1966
77.	Brass	Tin	IS:3685: 1996
78.	Brass	Zinc	IS:3685: 1966
79.	Brass alloy	Manganese	IS:3685: 1966
80.	Copper	Antimony	IS:440: 1964
81.	Copper	Lead	IS:440: 1964
82.	Copper	Nickel	IS:440: 1964
83.	copper	Oxygen	IS:440: 1964
84.	Copper	Phosphorus	IS:440: 1964
85.	Copper	Tin	IS:440: 1964
86.	Copper & its alloys	aluminium (Al)	BS EN 15079: 2015
87.	Copper & its alloys	Antimony	BS EN 15079: 2019
88.	Copper & its alloys	Arsenic	IS:440: 1964
89.	Copper & its alloys	Arsenic (As)	BS EN 15079: 2015

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
90.	Copper & its alloys	Bismuth	BS EN 15079: 2015
91.	Copper & its alloys	Boron(B)	BS EN 15079: 2015
92.	Copper & its alloys	Cadmium	BS EN15079: 2015
93.	Copper & its alloys	Chromium (Cr)	BS EN 15079: 2015
94.	Copper & its alloys	Cobalt	BS EN 15079: 2015
95.	Copper & its alloys	Iron (Fe)	BS EN 15079: 2015
96.	Copper & its alloys	Lead (Pb)	BS EN 15079: 2015
97.	Copper & its alloys	Manganese (Mn)	BS EN 15079: 2015
98.	Copper & its alloys	Nickel (Ni)	BS EN 15079: 2015
99.	Copper & its alloys	Oxygen	BS EN 15079: 2015
100.	Copper & its alloys	Phosphorus(P)	BS EN 15079: 2015
101.	Copper & its alloys	silicon (Si)	BS EN 15079: 2015
102.	Copper & its alloys	Tin (Sn)	BS EN 15079: 2015
103.	Copper & its alloys	Zinc (Zn)	BS EN 15079: 2015
104.	Copper alloy	Copper	IS:440: 1964
105.	Copper alloy	Iron	IS:440: 1964

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
106.	copper and its alloys	Copper as Cu	BS EN 15079: 2015
107.	Copper wire, pipe, rods, flat, bars and other products	Bismuth as Bi	IS:440: 1964
108.	Copper wire, pipe, rods, flat, bars and other products	Selenium as Se	BS EN 15079: 2015
109.	Copper wire, pipe, rods, flat, bars and other products	Silver as Ag	BS EN 15079: 2015
110.	Copper wire, pipe, rods, flat, bars and other products	Sulphur as S	BS EN 15079: 2015
111.	Copper wire, pipe, rods, flat, bars and other products	Tellurium as Te	BS EN 15079: 2015
112.	Non-Ferrous Metal Copper & Brass	Zinc	IS:440: 1964
113.	cast iron steel	Carbon (as C)	ASTM E 1999: 2023
114.	cast iron steel	Chromium (as Cr)	ASTM E 1999: 2023
115.	cast iron steel	Copper as Cu	ASTM E 1999: 2023
116.	cast iron steel	Manganese as Mn	ASTM E 1999: 2023
117.	cast iron steel	Molybdenum as Mo	ASTM E 1999: 2023
118.	cast iron steel	Nickel as Ni	ASTM E 1999: 2023
119.	cast iron steel	Phosphorus as P	ASTM E 1999: 2023

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Scope of Accreditation

Alpha Test House Services LLP

*Plot No.-175, Industrial Area Phase-9,
S.A.S. Nagar, Mohali-160062, Punjab, India*

QAI/CIA/TL/2025/0192

Valid from: 11 September 2026

Valid until: 10 September 2028

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
120.	cast iron steel	Silicon as Si	ASTM E 1999: 2023
121.	cast iron steel	Sulphur as S	ASTM E 1999: 2023
122.	cast iron steel	Tin as Sn	ASTM E 1999: 2023
123.	cast iron steel	Titanium as Ti	ASTM E 1999: 2023
124.	cast iron steel	Vanadium as V	ASTM E 1999: 2023
125.	SS Steel Products	Aluminium as Al	JIS 1253: 2002
126.	SS Steel Products	Boron as B	JIS 1253: 2002
127.	SS Steel Products	Cobalt as Co	JIS 1253: 2002
128.	SS Steel Products	Niobium as Nb	JIS 1253: 2002
129.	SS Steel Products	Nitrogen as N	JIS 1253: 2002
130.	SS Steel Products	Tin as Sn	JIS 1253: 2002
131.	SS Steel Products	Titanium as Ti	JIS 1253: 2002
132.	SS Steel Products	Tungsten as W	JIS 1253: 2002
133.	SS Steel Products	Vanadium as V	JIS 1253: 2002
134.	SS Steel Products	Zirconium as Zr	JIS 1253: 2002
135.	Reinforcement steel/ Structural Steel, Billet & Bloom	Niobium (as Nb)	IS:8811-1998

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
136.	Reinforcement steel/ Structural Steel, Billet & Bloom	Niobium (as Nb)	ASTM E 415-21:
137.	Reinforcement steel/ Structural Steel, Billet & Bloom	Nitrogen (as N)	IS 228 Part 19: 1998
138.	Reinforcement steel/ Structural Steel, Billet & Bloom	Vanadium (as V)	IS 8811 – 1998
139.	Reinforcement steel/ Structural Steel, Billet & Bloom	Vanadium (as V)	ASTM- E 415- 21:
140.	Stainless steel	Carbon	ASTM-E-1086: 2014 (by OES)
141.	stainless steel	Carbon	IS 228(p-1): 1987
142.	stainless steel	Chromium	IS 228 (p-6): 2024
143.	Stainless steel	Chromium (Cr)	ASTM-E-1086: 2014 (by OES)
144.	Stainless steel	Copper (Cu)	ASTM-E-1086: 2014 (by OES)
145.	Stainless Steel	Manganese	IS 228(p-2): 2024
146.	Stainless steel	Manganese (Mn)	ASTM-E-1086: 2014 (by OES)
147.	Stainless steel	Molybdenum (as Mo)	IS228 (P-7): 1970
148.	Stainless steel	Molybdenum (Mo)	ASTM-E-1086: 2022 (by OES)
149.	Stainless Steel	Nickel	IS 228 (P-5): 1987
150.	Stainless steel	Nickel (Ni)	ASTM-E-1086: 2022 (by OES)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
151.	Stainless Steel	Phosphorus	IS 228(p-3): 2024
152.	Stainless steel	Phosphorus(P)	ASTM-E-1086: 2022 (by OES)
153.	Stainless Steel	Silicon	IS 228(p-8): 1989
154.	Stainless steel	Silicon (Si)	ASTM-E-1086: 2022 (by OES)
155.	Stainless Steel	Sulphur	IS 228 (P-9): 1989
156.	Stainless steel	Sulphur(S)	ASTM-E-1086: 2022 (by OES)
157.	Stainless steel seamless pipes/ welded pipes/ Bars, strips, sheet.	Corrosion test	IS:10461(P- 1): 1994
158.	Tool steel products	Carbon as C	JIS 1253: 2002
159.	Tool steel products	Chromium as Cr	JIS 1253: 2002
160.	Tool steel products	Cobalt as Co	JIS 1253: 2002
161.	Tool steel products	Copper as Cu	JIS 1253: 2002
162.	Tool steel products	Manganese as Mn	JIS 1253: 2002
163.	Tool steel products	Molybdenum as Mo	JIS 1253: 2002
164.	Tool steel products	Nickel as Ni	JIS 1253: 2002
165.	Tool steel products	Phosphorus	JIS 1253: 2002

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
166.	Tool steel products	Silicon as Si	JIS 1253: 2002
167.	Tool steel products	Sulphur as S	JIS 1253: 2002
168.	Tool steel products	Tungsten as W	JIS 1253: 2002
169.	Tool steel products	Vanadium as V	JIS 1253: 2002
170.	Sheet, section, and other product	Paint Coating Thickness	IS:101(P- 3/Sec.2): 1989
171.	Sheet, section, and other product	Powder Coating Thickness	IS:101(P- 3/Sec.2): 1989

