

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **JBS Testing Solutions (Unit-2)**

Plot No. 24, Street No. 2, Adjoining Focal point Road, Transport Nagar,  
Jalandhar- 144004, 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/2023/0005**

(Replacing CLA with CIA w.e.f. 21 December 2023)

Valid from: 13 February 2023

Valid until: 12 February 2025

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals and Alloys</b>		
1.	Low alloy Steel/ Carbon Steel/ Stainless Steel	Carbon	IS 228 (Part-1):1987 (RA-2018)
2.	Low alloy Steel/ Carbon Steel/ Stainless Steel	Silicon	IS 228 (Part-8):1989 (RA-2019)
3.	Low alloy Steel/ Carbon Steel/ Stainless Steel	Manganese	IS 228 (Part-2):1987 (RA-2018)
4.	Low alloy Steel/ Carbon Steel/ Stainless Steel	Phosphorus	IS 228 (Part-3):1987 (RA-2018)
5.	Low alloy Steel/ Carbon Steel/ Stainless Steel	Sulphur	IS 228 (Part-9):1989 (RA-2018)
6.	Copper and its alloy	Tin	IS 3685:1966 (RA 2018)
7.	Copper and its alloy	Lead	IS 3685:1966 (RA 2018)
8.	Copper and its alloy	Aluminium	IS 3685:1966 (RA 2018)
9.	Copper and its alloy	Iron	IS 3685:1966 (RA 2018)
10.	Copper and its alloy	Nickel	IS 3685:1966 (RA 2018)
11.	Copper and its alloy	Phosphorus	IS 3685:1966 (RA 2018)
12.	Copper and its alloy	Silicon	IS 3685:1966 (RA 2018)
13.	Copper and its alloy	Zinc	IS 3685:1966 (RA 2018)
14.	Copper and its alloy	Antimony	IS 3685:1966 (RA 2018)
15.	Copper and its alloy	Copper	IS 3685:1966 (RA 2018)
16.	Steel Products	Mass of Zinc Coating	IS 6745:1972



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Rotating Machines/ Submersible Pump Sets	Direction of Rotation	IS 8034:2018
2.		High Voltage Test	IS 8034:2018
3.		Insulation Resistance Test	IS 8034:2018
4.		Leakage Current Test	IS 8034:2018
5.		Locked Rotor Test	IS 8034:2018
6.		Measurement of Stator Resistance	IS 9283:2013
7.		No load running of Motor	IS 8034:2018
8.		Surface Finish of Shaft or Roughness Testing	IS 9283:2013
9.		Hydrostatic Test	IS 8034:2018
10.		Pump Performance Test	IS 8034:2018
11.		Marking	IS 8034:2018
12.		Balancing of Rotor and Impeller	IS 8034:2018
13.		Temperature Rise Test at Rated Voltage	IS 8034:2018
14.		Temperature Rise Test at Reduced Voltage	IS 8034:2018
15.		Dimension Test	IS 8034:2018 & IS 9283:2013



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
1.	Hand Pump	Sub Assembly dimensions as Cl 2.2,2.3	IS 15500 (Part 2):2021
2.		Component and its tool Dimensions	IS 15500 (Part 1,2,3,4,5,6, 7 & 8):2021
3.		Dimensional And other tests	IS 15500 (Part 1): 2021
4.		Anticorrosive Treatment	IS 15500 (Part 1): 2021
5.	Steel Product	Tensile Strength	ASTM A370:2023
6.		Tensile Strength	ASTM F606M:2021
7.		Tensile Strength	IS 1367 (Part 14):1984 (RA-2007)
8.		Tensile Strength	IS 1367 (Part 3):2017
9.		Tensile Strength	ISO 3506-1:2020
10.		Tensile Strength	ISO 898 (Part 2):2013
11.		Tensile Strength	EN895: 1991
12.		Tensile Strength	ASME Sec IX
13.		Tensile Strength	IS 1608 (Part 1):2022
14.		Tensile Strength	ASTM E345:16
15.		Tensile Strength	IS 13237:1991
16.		Tensile Strength	API 1104:2021
17.		Tensile Strength	AWSB4.0
18.		Tensile Strength	AWSDI/DIM
19.		Tensile Strength	BS EN ISO 5178:2019
20.		Tensile Strength	IS 3600 (Part 3):2018
21.		Tensile Strength	IS 3600 (Part 4):1984 (RA-2021)
22.		Tensile Strength	BS EN ISO 4555:2003
23.		Tensile Strength	ISO 4136:2022

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Mechanical Properties of Metals</b>			
24.		Elongation	ISO 3506 (Part 1) :1989	
25.		Elongation	ASTM A370:23	
26.		Elongation	ASTM F606M: 21	
27.		Elongation	IS 1367 (Part 14):1984	
28.		Elongation	IS 1367 (Part 3):2017	
29.		Elongation	ISO 898-1:2022	
30.		Elongation	EN 895:1991	
31.		Elongation	ASME Sec IX:	
32.		Elongation	IS 1608 (Part 1):2022	
33.		Elongation	ASTM E345:16	
34.		Elongation	IS 13237:1991	
35.		Elongation	IS 16651:2017	
36.		Elongation	IS 1786:2008 (RA-2018)	
37.		Yield Strength	EN 895:1991	
38.		Yield Strength	ASME Sec IX	
39.		Yield Strength	IS 1608 (Part 1):2022	
40.		Bars/Wires/Sheets/Structural Steel/TMT/Fasteners/Bolt Beam/Column/Channel/Rail Plates/ Section/ Rod/ Pipe/ Welded Component/ Fitting/ Round Bar/ Valves	Dimension	IS 781:1984
41.			Dimension	IS 13095:2020
42.			Dimension	IS 8794:1988 (RA-2022)
43.	Dimension		IS 778:1984	
44.	Dimension		IS 8931:2021	
45.	Dimension		IS 704:1984	
46.	Dimension		IS 7181:1986 (RA-2019)	
47.	Dimension		IS 9523:2000 (RA 2020)	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
48.		Dimension	IS 1363 (Part 1):2023
49.		Dimension	IS 5290:1993
50.		Dimension	IS 884:1985
51.		Dimension	IS 903:1993
52.		Dimension	IS 1173:1978
53.		Dimension	IS 16163:2012
54.		Dimension	IS 10748:2004
55.		Dimension	IS 1863:1979
56.		Dimension	IS 2314:1986
57.		Dimension	IS 2879:1998
58.		Dimension	IS 3954:1991
59.		Dimension	IS 5488:1987
60.		Dimension	IS 10102:1982
61.		Dimension	IS 1173:1978
62.		Dimension	IS 16163:2012
63.		Dimension	IS 10748:2004
64.		Dimension	IS 1863:1979
65.		Dimension	IS 2314:1986
66.		Dimension	IS 2879:1998
67.		Dimension	IS 3954:1991
68.		Dimension	IS 5488:1987
69.		Dimension	IS 1252:1991
70.		Dimension	IS 1875:1992
71.		Dimension	IS 1929:1982
72.		Dimension	IS 1079:2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
73.		Dimension	IS 4351:2003
74.		Dimension	IS 6912:2005
75.		Dimension	IS 2721:2003
76.		Dimension	IS 6911:2017
77.		Dimension	IS 1161:2014
78.		Dimension	IS 1536:2023
79.		Dimension	IS 1538:1993
80.		Dimension	IS 204 (Part2):1992
81.		Dimension	IS 5531:2014
82.		Dimension	IS 10325:1991
83.		Dimension	IS 12817:2020
84.		Dimension	IS 1536:2023
85.		Dimension	IS 1825:1983
86.		Dimension	IS 13589:2018
87.		Dimension	IS 3601:2006
88.		Dimension	IS 4270:2001
89.		Dimension	IS 204 (Part 1):1991 (RA-2021)
90.		Dimension	IS 1729:2023
91.		Dimension	IS 1852:1985 (RA-2022)
92.		Dimension	IS 432 (Part1):1982 (RA-2022)
93.		Dimension	IS 432 (Part2):1982 (RA-2020)
94.		Dimension	IS 2692:1989 (RA-2018)
95.		Dimension	IS 2721:2003 (RA-2019)
96.		Dimension	IS 11513:2017
97.		Dimension	IS 14246:2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
98.		Dimension	IS 278:2009 (RA-2020)
99.		Dimension	IS 277:2018 (RA-2022)
100.		Dimension	IS 9890:1981 (RA-2018)
101.		Dimension	IS 7214:1974 (RA-2019)
102.		Dimension	IS 1786:2008 (RA-2018)
103.		Dimension	IS 6240:1977
104.		Dimension	IS 7283:1992 (RA-2022)
105.		Dimension	IS 7452:1990 (RA-2017)
106.		Dimension	IS 779:1994 (RA-2020)
107.		Dimension	IS 6118:2017
108.		Dimension	IS 2028:2004 (RA-2019)
109.		Dimension	IS 1879:2010
110.		Dimension	IS 1169:1967
111.		Dimension	IS 14268:2022
112.		Dimension	IS 1785 (Part 1):1983
113.		Dimension	IS 1785 (Part 2):1983
114.		Dimension	IS 280:2006
115.		Dimension	IS 3739:1987
116.		Dimension	IS 4454 (Part 1):2001
117.		Dimension	IS 4454 (Part 2):2001
118.		Dimension	IS 4824:2022
119.		Dimension	IS 5872:1990
120.		Dimension	IS 6003:2010
121.		Dimension	IS 6527:1995
122.		Dimension	IS 6528:1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
123.		Dimension	IS 7904:2018
124.		Dimension	IS 9550:2001
125.		Dimension	IS 1835:1976
126.		Dimension	IS 4368:1967
127.		Dimension	IS 11722:1986
128.		Dimension	IS 1732:1989
129.		Dimension	IS 16176:2014
130.		Dimension	IS 2029:1998
131.		Dimension	IS 6149:1984
132.		Dimension	IS 13983:1994
133.		Dimension	IS 6603:2001
134.		Dimension	IS 1341:2018
135.		Dimension	IS 5517:1993
136.		Dimension	IS 2039 (Part 1 to 3):1991
137.		Dimension	IS 9295:1983
138.		Dimension	IS 1161:2014
139.		Dimension	IS 1239 (Part 1):2004
140.		Dimension	IS 4454 (Part 1):2001
141.		Dimension	IS 5312 (Part 1):2004
142.		Dimension	IS 4346:1982
143.		Bend	BS EN 910:1996
144.		Bend	IS 277:2018
145.		Bend	IS 280:2006
146.		Bend	IS 1599:2023
147.		Bend	IS 2329:2005

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
148.		Bend	IS 14246:2013
149.		Bend	IS 4454 (Part 1):2001
150.		Bend	IS 4454 (Part 2):2001
151.		Bend	ASTM A370:23
152.		Bend	BS EN ISO 5173:2023
153.		Bend	IS 3600 (Part 4):1984
154.		Bend	IS 3600 (Part 6):1983
155.		Bend	BS EN ISO 4555:2003
156.		Bend	AWSB4.0:1998
157.		Re Bend Test	IS 1786:2008
158.		Bend	API 1104:2021
159.		Bend	ASME Sec IX
160.		Cold Bend Test	IS 1161:2014
161.		Cold Bend Test	IS 2329:2005
162.		Cold Bend Test	IS 1239 (Part 1):2004
163.		Reverse Bend test	IS 1403 (Part 1):1993
164.		Reverse Bend test	IS 1785 (Part 2):1983
165.		Reverse Bend test	IS 1785 (Part 2):1983
166.		Reverse Bend test	IS 1716:2023
167.		Reverse Bend test	IS 432 (Part 1):1982
168.		Reverse Bend test	IS 432 (Part 2):1982
169.	TMT	Mass per meter	IS 1786:2008
170.	Steel Product	Mass per meter	IS 2062:2011
171.	Valves/Fittings	Hydrostatic Test	IS 781:1984

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
172.		Hydrostatic Test	IS 5290:1993
173.		Hydrostatic Test	IS 884:1985
174.		Hydrostatic Test	IS 903:1993
175.		Hydrostatic Test	IS 1538:1993
176.		Hydrostatic Test	IS 10325:2000
177.		Hydrostatic Test	IS 13095:2020
178.		Hydrostatic Test	IS 1729:2023
179.		Hydrostatic Test	IS 2692:1989
180.		Hydrostatic Test	IS 5312 (Part1):2004
181.		Hydrostatic Test	IS 5531:2014
182.		Hydrostatic Test	IS 7181:1986
183.		Hydrostatic Test	IS 778:1984
184.		Hydrostatic Test	IS 779:1994
185.		Hydrostatic Test	IS 8329:2000
186.		Hydrostatic Test	IS 8794:1988
187.		Hydrostatic Test	IS 8931:2021
188.		Hydrostatic Test	IS 9523:2000
189.		Hydrostatic Test	IS 9890:1981
190.		Hydrostatic Test	IS 1536:2023
191.		Hydrostatic Test	IS 1239 (Part 2):2011
192.		Hydrostatic Test	IS 1879:2010
193.		Hydrostatic Test	IS 1239-1:2004
194.		Hydrostatic Test	IS 210:2009
195.		Hydrostatic Test	IS 2373:1981
196.		Drift Expansion	IS 2335:2005

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
197.	Fasteners	Proof Load (Bolt)0-400 KN	IS 1367 (Part 3):2017
198.		Proof Load (Bolt) 0-400 KN	ASTM A370:23
199.		Proof Load (Bolt) 0-400 KN	ASTM F606M:21
200.		Proof Load (Bolt) 0-400 KN	IS 1367 (Part 14): sec1,2,4:2023 Sec 2:2018
201.		Proof Load (Bolt) 0-400 KN	IS 1367 (Part 3):2017
202.		Proof Load (Nut) 0-400 KN	IS 1367 (Part 6):2018
203.		Proof Load (Nut) 0-400 KN	ISO 3506 (Part 2):2020
204.		Proof Load (Bolt) 0-400 KN	ISO 3506 (Part 1):2020
205.		Proof Load (Bolt) 0-400 KN	ISO 898 (Part 1):2013
206.		Proof Load (Nut) 0-400 KN	ISO 898 (Part 2):2022
207.		Wedge Load (Nut) 0-400 KN	IS 1367 (Part 6):2018
		Wedge Load (Bolt)0-400 KN	ISO 3506 (Part 1):2020
208.		Wedge Load (Bolt)0-400 KN	ASTM A370: 23
209.		Wedge Load (Bolt) 0-400 KN	IS1367 (Part 3):2017
210.		Wedge Load (Bolt) 0-400 KN	ASTM 606M:21
211.		Wedge Load (Bolt) 0-400 KN	IS 1367 (Part 14):sec 1,2,4:2023 Sec 2:2018
212.		Wedge Load (Bolt) 0-400 KN	ISO 898 (Part 1):2013
213.		Wedge Load (Bolt) 0-400 KN	IS 1367 (Part 3):2017
214.	Head Soundness	IS 1367 (Part 3);2017	
215.	Head Soundness	ISO 898 (Part 1):2013	
216.	Bars/Wires/Sheets/Structural	HRC	IS 1586:2000
217.	Steel/TMT/Fasteners/Bolt	HRC	ASTM E10:23
218.	Beam/Column/Channel/Rail	HRC	ASTM A370:2023

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Mechanical Properties of Metals</b>			
219.	Plates/ Section/ Rod/ Pipe/ Welded Component/ Fitting/ Round Bar/ Valves	HRC	ASTM A370 :2023	
220.		HRC	ASTM E18:22	
221.		HRC	ISO 6508 (Part 1):2016	
222.		HRB	IS 1586:2000	
223.		HRB	ASTM A370:23	
224.		HRB	ASTM E18:22	
225.		HRB	IS 1586 (Part 1):2018	
226.		HRB	IS 1500 (Part 1):2019	
227.		BHN	IS 1500:2005	
228.		HRA	IS 1586 (Part 1):2018	
229.		HRA	ASTM E18:22	
230.		HRA	ASTM A370:23	
231.		Bars/ Wires/ Sheets/ Structural Steel/ Tubular Steel/ TMT/ Fasteners/ Bolt Beam/ Column/ Channel/ Rail Plates/ Section/ Rod/ Pipe/ Welded Component/ Fitting/ Round Bar/ Valves	HV10	ASTM E92:23
232.			HV10	IS 1501 (Part 1):2020
233.	HV10		ISO 6507 (Part 1):2023	
234.	HV30		ASTM E92:23	
235.	HV30		IS 1501 (Part 1):2020	
236.	HV30		ISO 6507 (Part 1):2023	
237.	Charpy Impact Test upto -196-degree Celsius		ASTM A370:23	
238.	Charpy Impact Test upto -196-degree Celsius		IS 1499:1977	
239.	Charpy Impact Test upto -196-degree Celsius		ASTM E23:23a	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
240.		Charpy Impact Test upto - 196-degree Celsius	IS 13620:1962
241.		Charpy Impact Test upto -196-degree Celsius	IS 14246:2013
242.		Charpy Impact Test upto -196-degree Celsius	IS 1757 (Part 1):2020
243.		Izod Impact Test	IS 1598:1977
244.		Izod Impact Test	BSEN ISO 148:2006
245.		Flow Test	OIML R49
246.		Flow Test	OIMLR49:2013
247.		Flow Test	IS 6786:1987
248.		Surface Integrity	IS 1363 (Part 3):2018
249.		Surface Integrity	IS 1363 (Part 9) Sec 1:2019
250.		Surface Integrity	IS 1363 (Part 1):2023
251.		Surface Integrity	IS 1367 (Part 10):2002
252.		Pneumatic Test	IS9890:1981
253.		Endurance Test (Cycle Test)	JBSTS (U2)/SOP/M/016
254.		Pullout test	IS 2770 (Part-1):1967
255.		Mean Projected Area of Ribs per Unit Length	IS 16651:2017
256.		Mean Projected Area of Ribs per Unit Length	IS 1786:2008
257.		Heat Resistance	IS 13395:2021
258.		Washing Resistance	IS 13395:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
259.		Burning Resistance	IS 13395:2021
260.		Mean Projected Area of Transverse Ribs	IS 1786:2008
261.		Mean Projected Area of transverse Ribs	IS 16651:2017
262.		The Ribs Contributing the Projected Area (Longitudinal Ribs/Transverse Ribs)	IS 16651:2017
263.		The Ribs Contributing the Projected Area (Longitudinal Ribs/Transverse Ribs)	IS 1786:2008
264.		Total Elongation at maximum force/ Percentage Elongation at maximum force	IS 16651:2017
265.		Total Elongation at maximum force/Percentage Elongation at maximum force	IS 1786:2008
266.		Handle and handle assemblies attached to cookware	Bending test
267.	Torque Strength		IS 13395:2021
268.	TMT	Visual Inspection/Surface Characteristics	IS 16651:2017
269.		Visual Inspection/Surface Characteristics	IS 1786:2008
270.		Leakage and thermal insulation test	IS 13395:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
271.	Handle and handle assemblies attached to cookware	Resistance to burning	IS 13395:2021
272.	Fastner/Valves/Fittings	Thread	IS 4270:2001
273.		Thread	IS 2643:2005
274.		Thread	IS 14962 (Part 1):2018
275.		Thread	IS 2334:2001
276.		Thread	IS 4218 (Part 3):1999
277.		Thread	IS 8999:2003
278.		Thread	IS 554:1999
279.	Handle and handle assemblies attached to cookware	Bending strength test	IS 13395:2021
280.	Handle and handle assemblies attached to cookware	Torque test	IS 13395:2021
281.	Handle and handle assemblies attached to cookware	Impact strength test	IS 13395:2021
282.	Bars/wires Sheets/ Structural Steel/ Tabular Steel/ TMT/ Fasteners/ Bolt Beam/ Column/ Channel/ Rail Plates/ Section/ Rod/Pipe/ Welded Component /Fitting/ Round Bar/ Valves	Mass	IS 1730:1989
283.		Mass	IS 14268:2022
284.		Mass	IS 1732:1989
285.		Mass	IS 9295:1983
286.		Mass	IS 1161:2014
287.		Mass	IS 1239 (Part 1):2004
288.		Mass	IS 2062:2011
289.		Mass	IS 13630 (Part 1):2019
290.		Mass	IS 808:2021
291.		Mass	IS 781:1984

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
292.		Mass	IS 9523:2000
293.		Mass	IS 3601:2006
294.		Mass	IS 4923:2017
295.		Mass	IS 1732:1989
296.		Mass	IS 278:2009
297.		Mass	IS 277:2018
298.		Mass	IS 4923:2017
299.		Mass	IS 7452:1990
300.		Mass	IS 1536:2023
301.		Mass	IS 1538:1993
302.		Mass	IS 1729:2023
303.		Mass	IS 1825:1983
304.		Mass	IS 3989:2009
305.		Mass	IS 432 (Part 1):1982
306.		Mass	IS 5531:2014
307.		Mass	IS 7181:1986
308.		Mass	IS 8794:1988
309.		Mass	IS 704:1984
310.		Mass	IS 3063:1994
311.	Handle and handle assemblies attached to cook ware	Fatigue test	IS 13395:2021
312.		Construction	IS 13395:2021
313.	Steel tubes/ Pipe	Flattening Test (50 mm to 300 mm)	IS 2328:2018
314.		Flattening Test (50 mm to 300 mm)	ASTM A1016/1016M-a:23

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
315.		Flattening Test (50 mm to 300 mm)	ASTM A450/450M-a:23
316.		Flattening Test (50 mm to 300 mm)	ASTM A530/530M-a:18
317.		Flattening Test (50 mm to 300 mm)	ASTM A370:2023
318.		Flattening Test (50 mm to 300 mm)	IS 2328:2018
319.		Flattening Test (50 mm to 300 mm)	ISO 8492:2013
320.	TMT	TS/YS Ratio	IS 1786:2008
321.		TS/YS Ratio	IS 16651:2017
322.		Maximum Extension	IS 16651:2017
323.		Maximum Extension	IS 1786:2008
324.	Stainless -steel Utensils	Dimension	IS 14756:2022
325.	Aluminum steel Utensils	Dimension	IS 1660:2009
326.	Stainless steel Utensils	Staining Test	IS 14756:2022





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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
1.	Float Glass	Defects on cut side	IS 14900: 2018
2.		Dimension (Length / Width)	IS 14900: 2018
3.		Optical fault: Critical Viewing Angle	IS 14900: 2018
4.		Thickness	IS 14900: 2018
5.		Tin side detection by UV light	IS 14900: 2018
6.		Visual Faults	IS 14900: 2018
7.	Safety Glass for Architectural, Building and General Use	Defects in Central Area	Sec. 5.3.6 of IS 2553 (Part 1): 2018
8.		Dimensional (Length & Width)	Sec. 5.2 of IS 2553 (Part 1): 2018
9.		Dimensional (Thickness)	Sec. 5.1 of IS 17004: 2018
10.		Edge Working of Glass for Toughening	Sec. 5.2.9 of IS 2553 (Part 1): 2018
11.		Fabrication of Glass	Sec. 5.2.8 of IS 2553 (Part 1): 2018
12.		Flatness	Sec. 5.2.4 of IS 2553 (Part 1): 2018
13.		Fragmentation Test	Sec.6.1 of IS 17004: 2018
14.		Resistance to human impact	Sec. 6.4 of IS 17004: 2018
15.		Mechanical Strength	Sec. 6.3 of IS 17004: 2018
16.		Resistance to Impact (Resistance to Shock)	Sec. 6.2.1 of IS 17004: 2018
17.		Fracture and Adhesion Test	Sec. 6.2.2 of IS 17004: 2018
18.		Boil Test	Sec. 7.1.1 of IS 17004: 2018
19.		Bake Test	Sec. 7.1.2 of IS 17004: 2018
20.		Humidity Test	Sec. 7.2 of IS 17004: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
21.		Light Stability Test: Discolouration, Blister and Turbidity	Sec. 7.6 of IS 17004: 2018
22.		Squareness	Sec. 5.2 of IS 2553 (Part 1): 2018
23.		Distribution of allowable defects	Sec. 4.4 and 4.5 of IS 14900: 2018
24.		Working on Glass after Lamination	Sec. 5.3.9 of IS 2553 (Part 1): 2018
25.	Safety Glass for Road Transport	Dimensional Check	IS 2553 (Part 2): 2019
26.		Fragmentation Test	Sec. 6.2 of IS: 2553 (Part 2): 2019
27.		Head Form Test	Sec. 6.5 of IS: 2553 (Part 2): 2019
28.		Marking	Sec. 4.1 and 9.2 of IS: 2553 (Part 2): 2019
29.		227 g Ball Test	Sec. 6.3 of IS: 2553 (Part 2): 2019
30.		2.260 g Ball Test	Sec. 6.4 of IS: 2553 (Part 2): 2019
31.		Test of Resistance to Humidity	Sec. 6.9 of IS: 2553 (Part 2): 2019
32.		Resistance to Radiation	Sec. 5.3.1 and 6.8, IS: 2553 (Part 2): 2019
33.		Resistance to Temperature Change	Sec. 6.10, IS: 2553 (Part 2): 2019
34.		Sheet Glass	Bow
35.	Dimension (Length / Width)		Sec. 4.2, 4.2.1 of IS 2835: 1987
36.	Distribution of allowable defects		Sec. 4.3, 4.3.1 of IS 2835: 1987
37.	Material (Visual)		Sec. 4.1, 4.1.1 of IS 2835: 1987

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
38.		Thickness	Sec. 5.1, Appendix-B of IS 2835: 1987
39.		Waviness	Appendix-A of IS 2835: 1987
40.	Paver Blocks	Dimensions	IS 15658: 2021
41.		General Quality and Finish	IS 15658: 2021
42.		Tensile Splitting Strength	IS 15658: 2021
43.		Flexural Strength	IS 15658: 2021
44.		Abrasion Resistance	IS 15658: 2021
45.		Water Absorption	IS 15658: 2021
46.		Compressive Strength	IS 15658: 2021
47.		Freeze thaw durability	IS 15658: 2021
48.	Concrete Cube	Compressive Strength	IS 516 (Part 1/Sec 1): 2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Sub Assembly/ Ancillaries/ Accessories		
1.	Water meter	Metering Accuracy Test Life Test (Accelerated Endurance Test)	Sec. 6.1 of IS 6784: 1996
2.		Hydrostatic Test (Pressure Tightness Test)	Sec. 7 of IS 6784: 1996
3.		Loss of Pressure Test	Sec. 6.2 of IS 6784: 1996
4.		Minimum Starting Flow Rate (Qmin)	Sec. 6.1 of IS 6784: 1996
5.		Temperature Suitability Test	Sec. 8 of IS 6784: 1996
6.		Meter Size and Overall Construction Indication Device	Sec. 9 of IS 779: 1994 Sec. 7 of IS 779: 1994 Sec. 8 of IS 779: 1994



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber and Rubber Products</b>		
1.	Rubber Hawaii Chappal	Breaking Strength	Annexure-G, IS 10702: 2023
2.		Change in initial Hardness after accelerated ageing for 24 hours at 100 +/- 1°C	IS 3400 (Part 2): 2023 and IS 3400 (Part 4): 2012
3.		Compression Set	IS 10702: 2023
4.		Elongation	IS 10702: 2023
5.		Hardness	IS 10702: 2023
6.		Relative Density	IS 10702: 2023
7.		Shrinkage at Heat	IS 10702: 2023
8.		Shrinkage at room temp	IS 10702: 2023
9.		Split Tear strength	IS 10702: 2023
10.		Stud Bolt Diameter	IS 10702: 2023
11.		Tear Strength	IS 10702: 2023
12.		Tensile Strength	IS 10702: 2023
13.		Length	IS 10702: 2023
14.		Stud Bolt Thickness	IS 10702: 2023
15.	Slipper, rubber - Rubber components	Breaking Load	IS 11544: 1986
16.		Change in initial Hardness after accelerated ageing for 24 hours at 100 +/- 1°C	IS 3400 (Part 2): 2023 and IS 3400 (Part 4): 2012
17.		Ends	IS 11544: 1986
18.		Flexural Endurance	Appendix-B, IS 11544: 1986
19.		Hardness	IS 11544: 1986
20.		Lace Length	IS 11544: 1986
21.		Mass/meter	IS 11544: 1986
22.		Picks	IS 11544: 1986

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Rubber and Rubber Products		
23.		Relative Density	IS 3400 (Part 9): 2020
24.		Shape & Design	IS 11544: 1986
25.		Thickness	IS 11544: 1986
26.		Width	IS 11544: 1986
27.		Workmanship & Finish	IS 11544: 1986

