

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Universal Testing & Research Centre

(Division of Sustainable Stewardship Private Limited)

487/59, Ground Floor, National Market, Village- Peeragarhi,
New Delhi-110087, 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/2023/0029

(Date of First Accreditation: 26 October 2023 -25 October 2025)

Valid from: 26 October 2025

Valid until: 25 October 2027

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



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
1.	Marine Plywood/ Plywood for General Purposes / Plywood for Concrete Shuttering Work/ Structural Plywood/ Fire Retardant Plywood/ Wood Products	Retention of Preservative (Arsenic)	IS 2753(P-1): 1991
2.		Retention of Preservative (Boron)	IS 2753(P-1): 1991
3.		Retention of Preservative (Chromium)	IS 2753(P-1): 1991
4.		Retention of Preservative (Copper)	IS 2753(P-1): 1991
5.		Retention of Preservative (Fuel Oil & Creosote)	IS 2753(P-1): 1991
6.		Retention of Preservative (Zinc)	IS 2753(P-1): 1991
7.	Medium Density Fibre Board/ Particle Boards/ Prelaminated Medium Density Fibre Board/ Prelaminated Particle Boards/ Wood Products	Formaldehyde Content (By Titration)	IS 13745: 2020
8.	Medium Density Fibre Board/ Prelaminated Particle Boards/ Wood Products	Formaldehyde Concentrations in air	IS/ISO 12460(P-1): 2007
9.	Wood Products / Wood Based Panels	Formaldehyde Emission	JIS A 1460: 2021
10.		Determining formaldehyde concentration in air from wood products using a small-scale chamber	ASTM D 6007:2022 (40 CFR Part 770 TSCA Title VI)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
11.	Wood Based Panels / Wood Products	Formaldehyde Emission (by 1m3 & 0,225 m3 test chamber)	BS EN 717-1: 2004
12.		Formaldehyde Emission	ASTM D 5582: 2022
13.		Formaldehyde Content	IS/ISO 12460-5: 2015
14.		Formaldehyde Emission	AS /NZS 4266.1-2017
15.		Formaldehyde Emission	AS /NZS 2098.11: 2005



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Industrial & Fine Chemicals		
1.	Activated Carbons, Powdered and Granular	Moisture	IS 877: 2024
2.	Activated Carbons, Powdered and Granular	Ash	IS 877: 2024
3.	Activated Carbons, Powdered and Granular	Adsorption capacity in terms of iodine number	IS 2752: 2025
4.	Activated Carbons, Powdered and Granular	Determination of decolourization power	IS 877: 2024
5.	Activated Carbons, Powdered and Granular	Self - Heating Substance	UN Part III Section 33.3.1.6 Test N.4: 2009
6.	Activated Carbons, Powdered and Granular	Self - Heating Substance	UN MANUAL 33.4.3.3 :2019



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
1.	Block Board	Length	IS 1659: 2004
2.		Width	IS 1659: 2004
3.		Thickness	IS 1659: 2004
4.		Variation of Thickness	IS 1659: 2004
5.		Edge Straightness	IS 1659: 2004
6.		Squareness	IS 1659: 2004
7.		Permissible Defects	IS 1659: 2004
8.		Adhesion of Plies	IS 1659: 2004
9.		Mycological test	IS 1659: 2004
10.		Resistance to Water	IS 1659: 2004
11.		Modulus of Rupture	IS 1659: 2004
12.		Modulus of Elasticity	IS 1659: 2004
13.		Dimension Change Caused by Humidity (Length, Thickness, Planeness & Delamination)	IS 1659: 2004
14.		Spot Test	IS 1659: 2004

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Building, Infrastructure & Construction Materials			
15.	Fire Retardant Plywood	Length	IS 5509: 2021	
16.		Width	IS 5509: 2021	
17.		Thickness	IS 5509: 2021	
18.		Edge Straightness	IS 5509: 2021	
19.		Squarness	IS 5509: 2021	
20.		Flame Penetration	IS 1734(P-3): 1983	
21.		Flammability	IS 1734(P-3): 1983	
22.		Rate of burning	IS 1734(P-3): 1983	
23.		Moisture Content	IS 1734(P-1): 1983	
24.		Workmanship and Finish	IS 5509: 2021	
25.		Marine Plywood	Length	IS 710: 2024
26.			Width	IS 710: 2024
27.			Thickness	IS 710: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
28.	Marine Plywood	Edge Straightness	IS 710: 2024
29.		Squareness	IS 710: 2024
30.		Workmanship and Finish	IS 710: 2024
31.		Moisture Content	IS 1734(P-1): 1983
32.		Adhesion of Plies	IS 1734(P-5): 1983
33.		Glue Shear Strength	IS 1734(P-4): 1983
34.		Mycological test	IS 1734(P-7): 1983
35.		Mycological test (Adhesion of Plies)	IS 1734(P-5): 1983
36.		Mycological test (Glue Shear Strength)	IS 1734(P-4): 1983
37.		Static Bending Strength Modulus of Rupture (Along & Across the Grains)	IS 1734(P-11): 1983
38.	Static Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983	



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
39.	Marine Plywood	Tensile strength parallel to surface -Right angles to the grains	IS 1734(P-9): 1983
40.		Tensile strength parallel to surface-Parallel to the grains	IS 1734(P-9): 1983
41.		Water resistance (Glue shear strength)	IS 1734(P-4 & 6):1983
42.		Water resistance test (Adhesion of Plies)	IS 1734(P-5 & 6):1983
43.		Wet Bending Strength Modulus of Rupture (Along & Across the grains)	IS 1734(P-11): 1983
44.		Wet Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983
45.	Medium Density Fibre Boards	Length	IS 2380(P-2) :1977
46.		Width	IS 2380(P-2) :1977
47.		Thickness	IS 2380(P-2) :1977
48.		Squareness	IS 12406 :2021
49.		Edge Straightness	IS 12406 :2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
50.	Medium Density Fibre Boards	Finish	IS 12406 :2021
51.		Moisture Content	IS 2380 (P-3): 1977
52.		Density	IS 2380 (P-3): 1977
53.		Modulus of Rupture	IS 2380 (P-4): 1977
54.		Modulus of Elasticity	IS 2380 (P-4): 1977
55.		Internal bond	IS 2380 (P-5): 1977
56.		Internal bond (After cyclic test)	IS 2380 (P-5): 1977
57.		Internal bond (After accelerated water resistance test)	IS 2380 (P-5): 1977
58.		Screw Withdrawal Strength	IS 2380 (P-14): 1977
59.		Water absorption	IS 2380 (P-16): 1977
60.		Linear Expansion (Thickness Swelling in Water) due to general absorption	IS 2380 (P-17): 1977
61.	Swelling in water due to Surface absorption	IS 2380 (P-17): 1977	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
62.	Particle Boards of wood	Length	IS 2380(P-2) :1977
63.		Width	IS 2380(P-2) :1977
64.		Thickness	IS 2380(P-2) :1977
65.		Squareness	IS 3087:2005
66.		Edge Straightness	IS 3087:2005
67.		Finish	IS 3087:2005
68.		Moisture Content	IS 2380 (P-3): 1977
69.		Density	IS 2380 (P-3): 1977
70.		Modulus of Rupture	IS 2380 (P-4): 1977
71.		Workability	IS 3087:2005
72.		Modulus of Elasticity	IS 2380 (P-4): 1977
73.		Screw Withdrawal Strength	IS 2380 (P-14): 1977
74.		Leaner Expansion (Swelling in water)	IS 2380 (P-17): 1977
75.		Swelling in Thickness Due to Surface absorption	IS 2380 (P-17): 1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
76.	Particle Boards of wood	Thickness Swelling	IS 2380 (P-17): 1977
77.		Tensile Strength Perpendicular to Surface	IS 2380 (P-5): 1977
78.		Tensile Strength Perpendicular to Surface (after cyclic)	IS 2380 (P-5): 1977
79.		Tensile Strength Perpendicular to surface (after accelerated water resistance test)	IS 2380 (P-5): 1977
80.		Water absorption	IS 2380 (P-16): 1977
81.	Plywood for Concrete Shuttering Work	Length	IS 4990: 2024
82.		Width	IS 4990: 2024
83.		Thickness	IS 4990: 2024
84.		Edge Straightness	IS 4990: 2024
85.		Squareness	IS 4990: 2024
86.		Workmanship and Finish	IS 4990: 2024
87.		Moisture Content	IS 1734(P-1): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
88.	Plywood for Concrete Shuttering Work	Glue Adhesion test (Adhesion of Plies)	IS 1734(P-5): 1983
89.		Glue Adhesion test (Glue Shear Strength)	IS 1734(P-4): 1983
90.		Mycological test (Adhesion of Plies)	IS 1734(P-5 & 7): 1983
91.		Mycological test (Glue Shear Strength)	IS 1734(P-4 & 7): 1983
92.		Static Bending Strength Modulus of Rupture (Along & Across the Grains)	IS 1734(P-11): 1983
93.		Static Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983
94.		Tensile strength parallel to the grain direction	IS 1734(P-9): 1983
95.		Tensile strength Right angle to the grain Direction	IS 1734(P-9): 1983
96.		Resistance to Water (Glue shear strength)	IS 1734(P-4&6): 1983
97.		Resistance to Water (Adhesion of Plies)	IS 1734(P-5&6): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
98.	Plywood for Concrete Shuttering Work	Wet Bending Strength Modulus of Rupture (Along & Across the grains)	IS 1734(P-11): 1983
99.		Wet Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983
100.	Plywood For General Purposes	Length	IS 303: 2024
101.		Width	IS 303: 2024
102.		Thickness	IS 303: 2024
103.		Edge Straightness	IS 303: 2024
104.		Squareness	IS 303: 2024
105.		Workmanship and Finish	IS 303: 2024
106.		Moisture Content	IS 1734(P-1): 1983
107.		Glue Adhesion test	IS 1734(P-5): 1983
108.		Mycological test	IS 1734(P-7): 1983
109.		Water resistance test	IS 1734(P-5 & 6): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
110.	Plywood For General Purposes	Static Bending Strength Modulus of Rupture (Along & Across the Grains)	IS 1734(P-11): 1983
111.		Static Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983
112.	Prelaminated Medium Density Fibre Board	Length	IS 2380 (P-2): 1977
113.		Width	IS 2380 (P-2): 1977
114.		Thickness	IS 2380 (P-2): 1977
115.		Edge Straightness	IS 14587 : 2023
116.		Squareness	IS 14587 : 2023
117.		Finish	IS 14587 : 2023
118.		Moisture Content	IS 2380 (P-3): 1977
119.		Density	IS 2380 (P-3): 1977
120.		Modulus of Rupture	IS 2380 (P-4): 1977
121.		Modulus of Elasticity	IS 2380 (P-4): 1977

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
122.	Prelaminated Medium Density Fibre Board	Linear Expansion (Thickness Swelling in water)	IS 2380 (P-17): 1977
123.		Abrasion Resistance test	IS 14587 : 2023
124.		Resistance to Cigarette Burns	IS 14587 : 2023
125.		Resistance to Crack	IS 14587 : 2023
126.		Resistance to Stain	IS 14587 : 2023
127.		Resistance to Steam	IS 14587 : 2023
128.		Screw Withdrawal Strength	IS 2380 (P-14): 1977
129.		Internal bond	IS 2380 (P-5): 1977
130.		Internal bond (After cyclic test)	IS 2380 (P-5): 1977
131.		Internal bond (After accelerated water resistance test)	IS 2380 (P-5): 1977
132.		Water absorption	IS 2380 (P-16): 1977
133.		Prelaminated Particle Board	Length
134.	Width		IS 2380 (P-2): 1977

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
135.	Prelaminated Particle Board	Thickness	IS 2380 (P-2): 1977
136.		Edge Straightness	IS 12823 : 2015
137.		Squareness	IS 12823 : 2015
138.		Finish	IS 12823 : 2015
139.		Moisture Content	IS 2380 (P-3): 1977
140.		Density	IS 2380 (P-3): 1977
141.		Modulus of Rupture	IS 2380 (P-4): 1977
142.		Modulus of Elasticity	IS 2380 (P-4): 1977
143.		Thickness Swelling in water	IS 2380 (P-17): 1977
144.		Abrasion Resistance test	IS 12823 : 2015
145.		Resistance to Cigarette Burns	IS 12823 : 2015
146.		Resistance to Crack	IS 12823 : 2015
147.		Resistance to Stain	IS 12823 : 2015

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
148.	Prelaminated Particle Board	Resistance to Steam	IS 12823 : 2015
149.		Screw Withdrawal Strength	IS 2380 (P-14): 1977
150.		Tensile Strength Perpendicular to Surface	IS 2380 (P-5): 1977
151.		Tensile Strength Perpendicular to Surface (after cyclic)	IS 2380 (P-5): 1977
152.		Tensile Strength Perpendicular to surface (after Accelerated water resistance Test)	IS 2380 (P-5): 1977
153.		Water absorption	IS 2380 (P-16): 1977
154.		Structural Plywood	Length
155.	Width		IS 10701 : 2012
156.	Thickness		IS 10701 : 2012
157.	Edge Straightness		IS 10701 : 2012
158.	Squareness		IS 10701 : 2012
159.	Workmanship and Finish		IS 10701 : 2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
160.	Structural Plywood	Moisture Content	IS 1734(P-1): 1983
161.		Glue Shear Strength in Dry State	IS 1734(P-4): 1983
162.		Resistance to water test (Glue Shear Strength)	IS 1734(P-4 & 6): 1983
163.		Resistance to Micro- organisms (Glue Shear Strength)	IS 1734(P-4 & 7): 1983
164.		Modulus of Rupture Along & Across the face Grain Direction	IS 1734(P-11): 1983
165.		Modulus of Elasticity Along & Across the face Grain Direction	IS 1734(P-11): 1983
166.		Wet Bending Strength Modulus of Rupture Along & Across the face Grain Direction	IS 1734(P-11): 1983
167.		Wet Bending Strength Modulus of Elasticity Along & Across the face Grain Direction	IS 1734(P-11): 1983
168.		Compressive Strength Along & Across the face Grain Direction	IS 1734(P-10): 1983
169.		Tensile strength parallel to the grain direction	IS 1734(P-9): 1983
170.	Tensile strength Perpendicular to the grain Direction	IS 1734(P-9): 1983	

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New Delhi-110087, India

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
171.	Structural Plywood	Panel Shear Strength	IS 1734(Pt-13):1983
172.		Modulus of Rigidity (Plate Shear Strength)	IS 1734(Pt-14):1983
173.		Rolling Shear Strength	IS 10701:2012 Annex E
174.	Veneered Decorative Plywood	Length	IS 1328 : 1996
175.		Width	IS 1328 : 1996
176.		Thickness	IS 1328 : 1996
177.		Edge Straightness	IS 1328 : 1996
178.		Squareness	IS 1328 : 1996
179.		Finish	IS 1328 : 1996
180.		Moisture Content	IS 1734(P-1): 1983
181.		Modulus of Rupture Along & Across the face Grain Direction	IS 1734(P-11): 1983
182.		Modulus of Elasticity Along & Across the face Grain Direction	IS 1734(P-11): 1983
183.		Mycological test	IS 1734(P-7): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
184.	Veneered Decorative Plywood	Water Resistance test	IS 1328 : 1996
185.	Wooden Flush Door Shutter (Solid Core Type) Plywood Face Panels	Length	IS 4020 (P-2) : 1998
186.		Width	IS 4020 (P-2) : 1998
187.		Thickness	IS 4020 (P-2) : 1998
188.		Straightness	IS 4020 (P-2) : 1998
189.		Squareness	IS 4020 (P-2) : 1998
190.		Screw Withdrawal test	IS 4020 (P-16) : 1998
191.		End Immersion test	IS 4020 (P-13) : 1998
192.		Glue Adhesion test	IS 4020 (P-15) : 1998
193.		Knife Test	IS 4020 (P-14) : 1998
194.		Timber/ Wood	Moisture Content
195.	Density (Specific Gravity)		IS 1708(P-2): 1986
196.	Modulus of Rupture		IS 1708(P-5): 1986

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
197.	Timber/ Wood	Modulus of Elasticity	IS 1708(P-5): 1986
198.		Screw Holding Power	IS 1708(P-15): 1986
199.		Nail Holding Power	IS 1708(P-15): 1986
200.		Compressive Strength Along & Across the face Grain Direction	IS 1708(P-8/9):1986
201.		Tensile Strength Parallel to Grain	IS 1708(P-12):1986
202.		Shear Strength Parallel and Perpendicular to Grain	IS 1708(P-11):1986
203.		Marine Plywood/ Plywood for General Purposes / Plywood for Concrete Shuttering Work / Structural Plywood/ Fire Retardant Plywood/ Veneered Decorative Plywood/ Wood Products/ All Type Plywood	Screw Withdrawal Strength
204.	Nail Withdrawal Strength		IS 1734 (P-19) 1983
205.	Compressive Strength Along & Across the face Grain Direction		IS 1734(P-10): 1983
206.	Density		IS 1734(P-1): 1983
207.	Flame Penetration		IS 1734(P-3): 1983
208.	Flammability		IS 1734(P-3): 1983
209.	Rate of burning		IS 1734(P-3): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
210.	Flattened Bamboo Board	Length	IS 2380 (P-2): 1977
211.		Width	IS 2380 (P-2): 1977
212.		Thickness	IS 2380 (P-2): 1977
213.		Edge Straightness	IS 17571:2021
214.		Squareness	IS 17571:2021
215.		Workmanship and finish	IS 17571:2021
216.		Moisture Content	IS 1734(P-1): 1983
217.		Density	IS 1734(P-1): 1983
218.		Internal bond Strength in dry state	IS 2380 (P-5): 1977
219.		Internal bond Strength in wet state	IS 2380 (P-5): 1977
220.		Modulus of Rupture Along & Across the face Grain Direction	IS 1734(P-11): 1983
221.		Modulus of Elasticity Along & Across the face Grain Direction	IS 1734(P-11): 1983
222.		Tensile strength parallel to the grain Direction	IS 1734(P-9): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
223.	Flattened Bamboo Board	Tensile strength Perpendicular to the grain Direction	IS 1734(P-9): 1983
224.		Compressive Strength Along & Across the face Grain Direction	IS 1734(P-10): 1983
225.		Resistance to ageing dry heat	IS 17571:2021
226.		Resistance to ageing	IS 17571:2021
227.		Flame Penetration	IS 1734(P-3): 1983
228.		Flammability	IS 1734(P-3): 1983
229.		Rate of burning	IS 1734(P-3): 1983
230.	BWP Grade Bamboo Mat Board	Length	IS 2380 (P-2): 1977
231.		Width	IS 2380 (P-2): 1977
232.		Thickness	IS 2380 (P-2): 1977
233.		Edge Straightness	IS 17573:2021
234.		Squareness	IS 17573:2021
235.		Workmanship and finish	IS 17573:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
236.	BWP Grade Bamboo Mat Board	Moisture Content	IS 2380 (P-3): 1977
237.		Density	IS 2380 (P-3): 1977
238.		Internal bond Strength in dry state	IS 2380 (P-5): 1977
239.		Internal bond Strength in wet state	IS 2380 (P-5): 1977
240.		Modulus of Rupture	IS 2380 (P-4): 1977
241.		Modulus of Elasticity	IS 2380 (P-4): 1977
242.		Tensile Strength	IS 2380 (P-6): 1977
243.		Compressive Strength	IS 2380 (P-8): 1977
244.		Resistance to ageing dry heat	IS 17573:2021
245.		Resistance to ageing	IS 17573:2021
246.		Flame Penetration	IS 1734(P-3): 1983
247.		Flammability	IS 1734(P-3): 1983
248.		Rate of burning	IS 1734(P-3): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
249.	Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core Type)	Length	IS 4020 (P-2) : 1998
250.		Width	IS 4020 (P-2) : 1998
251.		Thickness	IS 4020 (P-2) : 1998
252.		Straightness	IS 4020 (P-2) : 1998
253.		Squareness	IS 4020 (P-2) : 1998
254.		Screw Withdrawal test	IS 4020 (P-16) : 1998
255.		End Immersion test	IS 4020 (P-13) : 1998
256.		Glue Adhesion test	IS 4020 (P-15) : 1998
257.		Knife Test	IS 4020 (P-14) : 1998
258.	Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core Type) Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels	Length	IS 4020 (P-2) : 1998
259.		Width	IS 4020 (P-2) : 1998
260.		Thickness	IS 4020 (P-2) : 1998
261.		Straightness	IS 4020 (P-2) : 1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
262.	Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core Type) Particle Board,	Squareness	IS 4020 (P-2) : 1998
263.	High Density Fibre Board,	Screw Withdrawal test	IS 4020 (P-16) : 1998
264.	Medium Density Fibre Board and Fibre Hardboard Face Panels	End Immersion test	IS 4020 (P-13) : 1998
265.		Glue Adhesion test	IS 4020 (P-15): 1998
266.		Length	IS 4020 (P-2) : 1998
267.		Width	IS 4020 (P-2) : 1998
268.	Wooden Flush Door Shutters (Solid Core Type) Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels	Thickness	IS 4020 (P-2) : 1998
269.		Straightness	IS 4020 (P-2) : 1998
270.		Squareness	IS 4020 (P-2) : 1998
271.		Screw Withdrawal test	IS 4020 (P-16) : 1998
272.		End Immersion test	IS 4020 (P-13) : 1998
273.		Glue Adhesion test	IS 4020 (P-15) : 1998
274.	Synthetic Resin Adhesives for Plywood	Cyclic Test	IS 848:2006
275.		Visual Examination	IS 848:2006

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
276.	Synthetic Resin Adhesives for Plywood	Adhesion of Plies	IS 1734(P-5): 1983
277.		Acidity and Alkalinity (pH)	IS 848:2006
278.		Keeping Quality of resin adhesive	IS 848:2006
279.		Alkalinity	IS 848:2006
280.		Pot Life	IS 848:2006
281.	Resin Treated Compressed Wood Laminates	Length	IS 3513 (P-3): 1989
282.		Width	IS 3513 (P-3): 1989
283.		Thickness	IS 3513 (P-3): 1989
284.		Moisture Content	IS 1708(P-1): 1986
285.		Density (Specific Gravity)	IS 1708(P-2): 1986
286.		Tensile strength	IS 1734(P-9): 1983
287.		Static Bending Strength, Modulus of Rupture	IS 1734(P-11): 1983
288.		Static Bending Strength, Modulus of Elasticity	IS 1734(P-11): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
289.	Resin Treated Compressed Wood Laminates	Compressive Strength Parallel to Grain	IS 1708(P-8):1986
290.		Compressive Strength Perpendicular to Grain	IS 1708(P-9):1986
291.		Shear Strength Parallel to Grain	IS 1708(P-11):1986
292.		Shear Strength Perpendicular to Grain	IS 1708(P-11):1986
293.		Cross Breaking Strength	IS 1998: 1902
294.	Laminated Veneer Lumber	Length	IS 14616:1999
295.		Width	IS 14616:1999
296.		Thickness	IS 14616:1999
297.		Moisture Content	IS 1734(P-1): 1983
298.		Density	IS 1734(P-1): 1983
299.		Adhesion of Plies (Dry State)	IS 1734(P-5): 1983
300.		Water resistance test (Adhesion of Plies)	IS 1734(P-6): 1983
301.	Micro- organism (Adhesion of Plies)	IS 14616:1999	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
302.	Laminated Veneer Lumber	Modulus of Rupture	IS 1659: 2004
303.		Modulus of Elasticity	IS 1659: 2004
304.		Modulus of Rupture	IS 1734(P-11): 1983
305.		Modulus of Elasticity	IS 1734(P-11): 1983
306.		Modulus of Rupture	IS 1708(P-5): 1986
307.		Modulus of Elasticity	IS 1708(P-5): 1986
308.		Compressive Strength Parallel to Grain	IS 1708(P-8): 1986
309.		Compressive Strength Perpendicular to Grain	IS 1708(P-9): 1986
310.		Shear Strength Parallel to Grain	IS 1708(P-11):1986
311.		Shear Strength Perpendicular to Grain	IS 1708(P-11):1986
312.		Tensile Strength Parallel to Grain	IS 1708(P-12):1986
313.		Screw Holding Power	IS 1708(P-15): 1986
314.		Nail Holding Power	IS 1708(P-15): 1986
315.		Thickness Swelling in water	IS 2380(P-17): 1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
316.	Bamboo Mat- Veneer Composite	Length	IS 14588:1999
317.		Width	IS 14588:1999
318.		Thickness	IS 14588:1999
319.		Straightness	IS 14588:1999
320.		Squareness	IS 14588:1999
321.		Workmanship and finish	IS 14588:1999
322.		Glue Shear Strength in Dry State	IS 1734(P-4): 1983
323.		Water Resistance test (Glue Shear Strength)	IS 14588:1999
324.		Mycological Test (Glue Shear Strength)	IS 14588:1999
325.		Internal Bond Strength in dry State	IS 2380 (P-5):1977
326.		Internal Bond Strength in Wet State	IS 14588:1999
327.		Mycological Test (Internal Bond Strength)	IS 14588:1999
328.		Modulus of Rupture	IS 1734(P-11): 1983
329.		Modulus of Elasticity	IS 1734(P-11): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
330.	Bamboo Mat Board	Length	IS 13958:1994
331.		Width	IS 13958:1994
332.		Thickness	IS 13958:1994
333.		Straightness	IS 13958:1994
334.		Squareness	IS 13958:1994
335.		Workmanship and finish	IS 13958:1994
336.		Moisture Content	IS 2380 (P-3): 1977
337.		Internal Bond Strength in dry State	IS 2380 (P-5):1977
338.		Internal Bond Strength in Wet State	IS 2380 (P-5):1977
339.		Mycological Test (Internal Bond Strength)	IS 13958:1994
340.		Modulus of Rupture	IS 2380 (P-4):1977
341.		Modulus of Elasticity	IS 2380 (P-4):1977
342.		Wood Based Structural Panels	Shearing Modulus of Elasticity

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
343.	Wood Based Structural Panels	Compression Strength	ASTM D3501:2024
344.		Surfactant Accelerated Moisture Stress	ASTM D2065: 2011
345.		Delamination of Adhesive Bond	ASTM D5824:2011
346.		Shear Strength	ASTM D2339: 2020
347.		Nail Withdrawal	ASTM D1761: 2020
348.		Direct Screw Withdrawal	ASTM D1761: 2020
349.		Wood Based Fiber and Particle Panel	Modulus of Rupture
350.	Modulus of Elasticity		ASTM D1037:2012
351.	Tension Parallel to surface		ASTM D1037:2012
352.	Tension Perpendicular to surface (Internal Bond)		ASTM D1037:2012
353.	Compression Strength		ASTM D1037:2012
354.	Nail Withdrawal		ASTM D1037:2012
355.	Direct Screw Withdrawal		ASTM D1037:2012
356.	Linear Expansion		ASTM D1037:2012

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Building, Infrastructure & Construction Materials			
357.	Wood Based Fiber and Particle Panel	Length	ASTM D1037:2012	
358.		Width	ASTM D1037:2012	
359.		Thickness	ASTM D1037:2012	
360.		Water Absorption	ASTM D1037:2012	
361.		Thickness Swelling	ASTM D1037:2012	
362.		Moisture Content	ASTM D1037:2012	
363.		Moisture Content	ASTM D4442:1992	
364.		Density and Specific Gravity (Relative Density)	ASTM D2395:2017	
365.		Wood Based Panels	Modulus of Elasticity	EN 310: 1993
366.			Bending Strength	EN 310: 1993
367.	Particle Boards and Fiber boards	Tensile Strength Perpendicular to the plane	EN 319: 1993	
368.		Swelling in Thickness	EN 317: 1993	
369.	Wood Based Panels	Length	EN 324 P-1:1993	
370.		Width	EN 324 P-1:1993	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
371.	Wood Based Panels	Thickness	EN 324 P-1:1993
372.		Edge Straightness	EN 324 P-2:1993
373.		Squareness	EN 324 P-2:1993
374.		Density	EN 323:1993
375.		Moisture Resistance under cyclic test	EN 321:2002
376.		Moisture Content	EN 322:1993
377.		Bonding Quality (Shear Strength)	EN 314-1:1993
378.		Resistance to Screw withdrawal	DIN EN 320:2011
379.		Length	AS/NZS 4266.1:2017
380.		Width	AS/NZS 4266.1:2017
381.		Thickness	AS/NZS 4266.1:2017
382.		Edge Straightness	AS/NZS 4266.1:2017
383.		Squareness	AS/NZS 4266.1:2017
384.		Moisture Content	AS/NZS 4266.1:2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
385.	Wood Based Panels	Density	AS/NZS 4266.1:2017
386.		Modulus of Elasticity	AS/NZS 4266.1:2017
387.		Bending Strength (Modulus of rupture)	AS/NZS 4266.1:2017
388.		Tension Perpendicular to the surface (Internal Bond)	AS/NZS 4266.1:2017
389.		Surface Soundness	AS/NZS 4266.1:2017
390.		Swelling in Thickness	AS/NZS 4266.1:2017
391.		Wet Bending Strength (Modulus of rupture)	AS/NZS 4266.1:2017
392.		Wet Modulus of Elasticity	AS/NZS 4266.1:2017
393.		Surface Water Absorption	AS/NZS 4266.1:2017
394.		Screw Withdrawal test	AS/NZS 4266.1:2017
395.		Fiber boards	Length
396.	Width		JIS A 5905:2003
397.	Thickness		JIS A 5905:2003
398.	Edge Straightness		JIS A 5905:2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
399.	Fiber boards	Squareness	JIS A 5905:2003
400.		Moisture Content	JIS A 5905:2003
401.		Density	JIS A 5905:2003
402.		Modulus of Elasticity	JIS A 5905:2003
403.		Bending Strength (Modulus of rupture)	JIS A 5905:2003
404.		Wet Bending Strength (Modulus of rupture)	JIS A 5905:2003
405.		Wet Modulus of Elasticity	JIS A 5905:2003
406.		Water Absorption	JIS A 5905:2003
407.		Swelling in Thickness	JIS A 5905:2003
408.		Change in length after immersion in water	JIS A 5905:2003
409.		Internal bond test	JIS A 5905:2003
410.		Screw holding power	JIS A 5905:2003
411.		Nail pulling-out resistance	JIS A 5905:2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
412.	Fiber boards	In-plane tensile strength	JIS A 5905:2003
413.		Impact resistance test	JIS A 5905:2003
414.		Acid resistance test	JIS A 5905:2003
415.		Alkali resistance test	JIS A 5905:2003
416.		Stain resistance test	JIS A 5905:2003
417.		Discoloration resistance test	JIS A 5905:2003
418.		Wood Based Panels	Surface Soundness
419.	Surface Absorption		EN 382 P-1: 1993
420.	Moisture resistance (Boil test)		EN 1087-1:1995
421.	Film Hardness by Pencil test		ISO 15184: 2020
422.	Surface Water Absorption		ASTM D5795:2016
423.	Wood Products	Moisture Content	ISO 13061-1: 2014
424.		Density	ISO 13061-2: 2014

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
425.	Wood Products	Modulus of Elasticity	ISO 13061-4: 2014
426.		Bending Strength (Modulus of rupture)	ISO 13061-3: 2014
427.		tensile strength Parallel to grain	ISO 13061-6: 2014
428.		tensile strength Perpendicular to grain	ISO 13061-7: 2014
429.		Compression Strength	ISO 13061-5: 2014
430.		Wood Based Panel	Volumetric Swelling
431.	Swelling in thickness		ISO 16983: 2003
432.	High Density Particle Board	Length	IS 2380(P-2) :1977
433.		Width	IS 2380(P-2) :1977
434.		Thickness	IS 2380(P-2) :1977
435.		Squareness	IS 2380(P-2) :1977
436.		Edge Straightness	IS 2380(P-2) :1977
437.		Moisture Content	IS 2380 (P-3): 1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
438.	High Density Particle Board	Density	IS 2380 (P-3): 1977
439.		Water absorption	IS 2380 (P-16): 1977
440.		Modulus of Rupture	IS 2380 (P-4): 1977
441.		Modulus of Elasticity	IS 2380 (P-4): 1977
442.		Tensile Strength	IS 2380 (P-5): 1977
443.		Boiling Water Resistance	IS 3478: 1966
444.		Low Density Particle Board	Length
445.	Width		IS 2380(P-2) :1977
446.	Thickness		IS 2380(P-2) :1977
447.	Squareness		IS 2380(P-2) :1977
448.	Edge Straightness		IS 2380(P-2) :1977
449.	Finish		IS 3129:1985
450.	Moisture Content		IS 2380 (P-3): 1977
451.	Density		IS 2380 (P-3): 1977
452.	Modulus of Rupture		IS 2380 (P-4): 1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
453.	Low Density Particle Board	Modulus of Elasticity	IS 2380 (P-4): 1977
454.		Water absorption	IS 2380 (P-16): 1977
455.		Swelling in Thickness Due to Surface absorption	IS 2380 (P-17): 1977
456.	Wood Based Panels	Length	EN 14323: 2021
457.		Width	EN 14323: 2021
458.		Thickness	EN 14323: 2021
459.		Flatness	EN 14323: 2021
460.		Edge Damage	EN 14323: 2021
461.		Surface Defect	EN 14323: 2021
462.		Resistance to Staining	EN 14323: 2021
463.		Resistance to Cracking	EN 14323: 2021
464.		Resistance to Steam	EN 14323: 2021
465.	Structural Container Floor Panels	Modulus of Rupture	IICL TB 001:2019
466.		Modulus of Elasticity	IICL TB 001:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
467.	Structural Container Floor Panels	Cyclic Boil Test	IICL TB 001:2019
468.		Shear Force	IICL TB 001:2019
469.		Shear Strength	IICL TB 001:2019
470.		Slope	IICL TB 001:2019
471.		Thickness	IICL TB 001:2019



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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous (Timber and Wood)		
1.	Wood and Wood Product	Identification of wood and wood product: <i>Picea smithiana</i> Boiss	IS 4970: 1973 RA:2020
2.		Identification of wood and wood product: <i>Tectona grandis</i> linn.f	IS 4970: 1973 RA:2020
3.		Identification of wood and wood product: <i>Dalbergia sissoo</i> Roxb.	IS 4970: 1973 RA:2020
4.		Identification of wood and wood product: <i>Anogeissus latifolia</i> wall	IS 4970: 1973 RA:2020
5.		Identification of wood and wood product: <i>Shorea robusta</i> gaertn.f	IS 4970: 1973 RA:2020
6.		Identification of wood and wood product: <i>Mangifera indica</i> linn	IS 4970: 1973 RA:2020
7.		Identification of wood and wood product: <i>Acacia nilotica</i> (L.) wild. Ex del.	IS 4970: 1973 RA:2020
8.		Identification of wood and wood product: <i>Pterocarpus marsupium</i> Roxb.	IS 4970: 1973 RA:2020

