

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **Atckon Laboratories LLP**

Plot no.45, M.I.E, Phase -I, Bahadurgarh,  
Jhajjar-124507, Haryana, 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/2025/0116**

Valid from: 06 May 2025

Valid until: 05 May 2027

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

**Prof. Vikram Kumar**  
Chair, CIA



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\*Scope Amended w.e.f.: 30 Oct 2025

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
1.	Grout For Filling of Joints of Tiles and Stone	Classification	IS: 17190: 2020, Clause: 4
2.		Linear shrinkage	IS: 17190: 2020, Clause: 5
3.		Water absorption	IS: 17190: 2020, Clause: 5
4.		Compressive Strength	IS: 17190: 2020, Clause: 5
5.		Flexural Strength	IS: 17190: 2020, Clause: 5
6.		Abrasion Resistance	IS: 17190: 2020, Clause: 5
7.		Transverse Deformability	IS: 17190: 2020, Clause: 5
8.		Marking & Packing	IS: 17190: 2020, Clause: 6 & 7
9.	Concrete Paving Blocks	Classification	IS: 15658:2021, Clause: 4
10.		Quality and Finish	IS: 15658:2021, Clause: 7.1 & 7.1.1
11.		Visual Inspection	IS: 15658:2021, Clause: 7.1.2
12.		Colour & Texture	IS: 15658:2021, Clause: 7.1.3
13.		Dimension Width	IS: 15658:2021, Clause: 7.2
14.		Dimension Length	IS: 15658:2021, Clause: 7.2
15.		Dimension thickness	IS: 15658:2021, Clause: 7.2
16.		Aspect ratio	IS: 15658:2021, Clause: 7.2

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Building, Infrastructure and Construction Materials</b>			
17.	Concrete Paving Blocks	Arris/Chamfer	IS: 15658:2021, Clause: 7.2	
18.		Thickness of wearing layer	IS: 15658:2021, Clause: 7.2	
19.		Dimension Plan Area, asp	IS: 15658:2021, Clause: 7.2	
20.		Dimension Wearing face Area Asw	IS: 15658:2021, Clause: 7.2	
21.		Dimension Ratio of wearing face area and plan area	IS: 15658:2021, Clause: 7.2	
22.		Dimension Deviation from squareness	IS: 15658:2021, Clause: 7.2	
23.		Water Absorption	IS: 15658:2021, Clause: 7.3	
24.		Compressive Strength	IS: 15658:2021, Clause: 7.3	
25.		Abrasion resistance	IS: 15658:2021, Clause: 7.3	
26.		Tensile Splitting Strength	IS: 15658:2021, Clause: 7.3	
27.		Flexural Strength	IS: 15658:2021, Clause: 7.3	
28.		Freeze thaw durability	IS: 15658:2021, Clause: 7.3	
29.		Adhesives for use with ceramic, mosaic, stone tiles	Classification	IS: 15477:2019, Clause: 4
30.			Tensile Adhesion Strength	IS: 15477:2019, Clause: 5.1
31.	Shear Adhesion Strength		IS: 15477:2019, Clause: 5.2	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
32.	Adhesives for use with ceramic, mosaic, stone tiles	Open Time	IS: 15477:2019, Clause: 5.3
33.		Adjustment Time	IS: 15477:2019, Clause: 5.4
34.		Slip	IS: 15477:2019, Clause: 5.5
35.		Deformability	IS: 15477:2019, Clause: 5.6
36.		Packing & Marking	IS: 15477:2019, Clause: 8
37.	Common Brunt Clay Building Bricks	Classification	IS: 1077:1992, Clause: 4
38.		General Quality	IS: 1077:1992, Clause: 5
39.		Dimension (length)	IS: 1077:1992, Clause: 6
40.		Dimension (Width)	IS: 1077:1992, Clause: 6
41.		Dimension (Height)	IS: 1077:1992, Clause: 6
42.		Compressive Strength	IS:3495 (P-1):2019, Clause: 7.1
43.		Water Absorption	IS:3495 (P-2):2019, Clause: 7.2
44.		Efflorescence	IS:3495 (P-3):2019, Clause: 7.3
45.		Marking	IS: 1077:1992, Clause: 9
46.	Fly Ash Building Bricks	Classification	IS: 13757:1993, Clause: 4
47.		General Quality	IS: 13757:1993, Clause: 5
48.		Dimension (Height)	IS: 13757:1993, Clause: 6

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
49.	Fly Ash Building Bricks	Dimension (length)	IS: 13757:1993, Clause: 6
50.		Dimension (Width)	IS: 13757:1993, Clause: 6
51.		Compressive Strength	IS:3495 (P-1):2019, Clause: 7.1
52.		Water Absorption	IS:3495 (P-2):2019, Clause: 7.2
53.		Efflorescence	IS:3495 (P-3):2019, Clause: 7.3
54.		Marking	IS: 13757:1993, Clause: 9



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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.	Metals & Metal products	Yield Stress /Proof Stress	IS 1608 Part-1: 2022/ISO 6892-1 :2019
2.		Yield Stress /Proof Stress	IS 1608 Part-1: 2022/ISO 6892-1 :2019
3.		Tensile Strength	IS 1608 Part-1: 2022/ISO 6892-1 :2019
4.		Tensile Strength	IS 1608 Part-1: 2022/ISO 6892-1 :2019
5.		Elongation	IS 1608 Part-1: 2022/ISO 6892-1 :2019
6.		Total elongation at maximum force	IS 1608 Part-1: 2022/ISO 6892-1 :2019
7.		Bend Test	IS 1599: 2023, /ISO 7438:2020
8.		Reverse Bend Test	Clause 7 - IS 5872: 2025
9.		Rebend Test	Clause 9.4 - IS 1786:2008
10.		Impact Test	IS 1757 (Part 1) : 2020/ ISO148-1:2016
11.		Freedom From Defects	Clause 11 – IS 10748: 2004, Clause 12 - IS 1079: 2017, Clause 13- IS 5986: 2017, Clause 8 - IS 11513:

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			2017, Clause 4 - IS 1254: 2025, Clause 6 - IS 1285: 2023, Clause 4 - IS 733: 1983, Clause 6 - IS 6911: 2017, Clause 9 - IS 5872: 2025, Clause 7.1 - IS 2062: 2011, Clause 7.1 - IS 15911: 2010
12.		Workmanship	Clause 6 - IS 18573: 2024
13.		Designation/Grades	clause 5 - IS 10748:2004, Clause 5 - IS 1079: 2017, Clause 5- IS 5986: 2017, Clause 4 - IS 11513: 2017, Clause 5 - IS 2062: 2011, Clause 6 - IS 4923: 2017, Clause 3 - IS 18573: 2024
14.	Metals & Metal products	Thickness	Clause 12 – IS 10748: 2004, Clause 13 - IS 1079 : 2017 , Clause 15 - IS 1079 : 2017 , Clause 9 - IS 11513 : 2017 , Clause 8.1 - IS 1254 : 2025 , Clause 8 - IS 1285 : 2023 , Clause 7 - IS 733:1983 , Clause 17 - IS 6911 : 2017, Clause 10.1 & 10.2 - IS 5872 : 2025 , Clause 15 - IS 2062 : 2011 , ; IS 1730 : 1989 ; IS 808:2021 ; ; IS

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			1173:1978 ; IS 1252:2025 ; IS 1863:1979 ; IS 3954:1991 ; IS 12779:1989 ; IS / ISO 16160 : 2005 ; IS 1852 : 1985 ; IS 3965 : 1981
15.	Metals & Metal products	Width & Depth	Clause 12 – IS 10748: 2004 , Clause 13 - IS 1079 : 2017 , Clause 15 - IS 5986 : 2017 , Clause 9 - IS 11513 : 2017, Clause 8.2 - IS 1254 : 2025 , Clause 8 - IS 1285 : 2023 , Clause 7 - IS 733:1983 , Clause 17 - IS 6911 : 2017, Clause 10.1 - IS 5872 : 2025, Clause 15 - IS 2062 : 2011, Clause 12 & 13 - IS 15911 : 2010, Clause 9,10,18 & 14 - IS 4923 : 2017, Clause 10, 11 & 12 - IS 18573 : 2024 ; IS 1730 :1989 ; IS 1732:1989 ; IS 808:2021 ; IS 1173:1978 ; IS 1252:2025 ; IS 1863:1979 ; IS 3954:1991 ; IS 1852:1985; IS / ISO 16160 : 2005
16.		Outside Diameter	Clause 8 - IS 1285: 2023; Clause 5.3 & 5.4 - IS 2673:2002, Clause 7 - IS 733:1983, Clause 15 - IS 2062: 2011, Clause 12 & 13 IS 15911: 2010; IS

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			3965: 1981; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
17.	Metals & Metal products	Ovality and Out-of-Square	Clause 12 & 13 IS 15911: 2010, Clause 8 - IS 1285: 2023, Clause 15 - IS 5986: 2017; IS 1730: 1989; IS / ISO; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
18.		Coil Inside Diameter	Clause 10.5 - IS 5872: 2025
19.		Length	Clause 17 – IS 6911 : 2017 ,Clause 13 - IS 1079 : 2017 , Clause 15 - IS 5986 : 2017, Clause 9 - IS 11513 : 2017, Clause 8 - IS 1285 : 2023 ; IS 6477 : 1983, Clause 8.3 - IS 1254 : 2025; Clause 5.6 - IS 2673:2002, Cl. 7.3 of IS 7283:1992, IS 1730 : 1989 ; IS / ISO 16160 : 2005 ; IS 1852 : 1985; Clause 15 - IS 2062 : 2011 ; Clause 12 & 13 -

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			IS 15911 : 2010 , Clause 9 - IS 18573 : 2024 , Clause 7.2 - IS 1786:2008; IS 1730 :1989 ; IS 1732:1989 ; IS 808:2021 ; IS 1173:1978 ; IS 1252:2025 ; IS 1863:1979 ; IS 3954:1991 ; IS 12779:1989 ; IS 1852:1985
20.	Metals & Metal products	Concavity and Convexity	Clause 9,10,18 & 14 - IS 4923: 2017, Clause 10, 11 & 12 - IS 18573: 2024, IS 733:1983; IS 3965: 1981
21.		Squareness of Sides	Clause 9,10,18 & 14 - IS 4923: 2017, Clause 10, 11 & 12 - IS 18573: 2024,
22.		External Corner Radius, Radius at Bulb Corners	Clause 9,10,18 & 14 - IS 4923: 2017, Clause 10, 11 & 12 - IS 18573: 2024, Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
23.		Straightness and Twist	Clause 9,10,18 & 14 - IS 4923: 2017, Clause 7 - IS 18573: 2024,

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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.	Metals & Metal products	Straightness	Clause 7 - IS 733:1983, Clause 8 - IS 1285: 2023, Clause 7 - IS 18573: 2024; Clause 5.5 - IS 2673:2002; IS 6477: 1983
25.		Camber and Sweep	Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
26.		Off-centre of Web	Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
27.		Flange Out of Square	Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
28.	Metals & Metal products	Flatness	Clause 13 - IS 1079 : 2017 , Clause 15 IS 5986 : 2017 , Clause 15 - IS 2062 : 2011 , Clause 12 & 13 - IS 15911 : 2010 , Clause 8 - IS 1285 : 2023, Clause 17 - IS 6911 : 2017, Annex A- Clause 10.3 - IS 5872 : 2025 ; IS 6477 : 1983 IS 1730 :1989 ; IS 1732:1989 ; IS 808:2021 ; IS 1173:1978 ; IS 1252:2025 ; IS 1863:1979 ; IS 3954:1991 ; IS 1852:1985
29.		Twist	Clause 8 - IS 1285: 2023, Clause 7 - IS 733:1983; IS 6477: 1983; IS 3965: 1981
30.		Leg length of angle section, leg length difference of angle section	Clause 15 - IS 2062: 2011; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 12779:1989; IS 1852:1985
31.		Squareness	Clause 8.4 - IS 1254: 2025
32.		Radius at fillet or root	Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
33.	Metals & Metal products	Radius at toe	Clause 15 - IS 2062: 2011, Clause 12 & 13 - IS 15911: 2010; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS 1863:1979; IS 3954:1991; IS 1852:1985
34.		Edge Camber	Clause 12 – IS 10748: 2004, Clause 15 - IS 5986: 2017; IS 1730: 1989; IS 1079 : 2017; IS / ISO 16160: 2005
35.		Crown	Clause 9.3 - IS 11513: 2017
36.		Depth of the Corrugation	Clause 8.5 - IS 1254: 2025
37.		Pitch of the Corrugation	Clause 8.5 - IS 1254: 2025
38.		Mass	Clause 6.2 & 7.2 - IS 1786:2008 , Clause 15 - IS 5986 : 2017, Clause 9 - IS 11513 : 2017 , Clause 15 - IS 2062 : 2011, Clause 12 & 13 - IS 15911 : 2010, Clause 16 - IS 1079 : 2017,

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	Mechanical Properties of Metals		
			Clause 8.1, ANNEX A , 9,10,18 & 14 - IS 4923 : 2017, Clause 8, Annex B , 10, 11 & 12 - IS 18573 : 2024 ; IS 1730 :1989 ; IS 1732:1989 ; IS 808:2021 ; IS 1173:1978 ; IS 1252:2025 ; IS 1863:1979 ; IS 3954:1991 ; IS 12779:1989 ; IS 1852:1985
39.	Metals & Metal products	Marking / Marking and Packing	Clause 16.1 – IS 10748: 2004, Clause 16 - IS 1079: 2017, Clause 18 - IS 5986: 2017, Clause 12.1 - IS 11513: 2017, Clause 14.1 - IS 1285: 2023, Clause 11.1 - IS 733:1983, Clause 19.1 - IS 6911: 2017 IS 5872: 2025, Clause 20.1, 20.2, 20.3 - IS 2062: 2011, Clause 17.1 & 17.2 - IS 15911: 2010, Clause 18.1 - IS 18573: 2024, Clause 13.1, 13.2 & 13.3 - IS 1786:2008, Cl. 21 of IS 210: 2009, Cl. 14.1 of IS 7283:1992
40.		Brinell Hardness	IS 1500(P-1): 2019 / ISO 6506-1:2014
41.		Vickers Hardness	IS 1501(P-1): 2025 / ISO 6507-1:2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
42.	Metals & Metal products	Rockwell Hardness	IS 1586(P- 1): 2025 / ISO 6508-1:2023
43.		Erichsen Cupping Test	IS 10175:2018 / ISO 20482:2013
44.		Corrosion Resistance	IS 10461(P-1):2025, IS 10461(P-2):1994
45.		Surface Finish	Clause 15.1 - IS 6911: 2017, Clause 11 - IS 5872: 2025
46.		Finish	Clause 10 - IS 1254: 2025
47.		CONDITIONS OF SUPPLY	Clause 7 - IS 1285: 2023; IS 5052:2025
48.		Dimensions and Tolerances – Angularity	Clause 7 - IS 733:1983; IS 3965: 1981
49.		Weld	IS 1608 Part-1: 2022
50.		Weld	IS 1608 Part-1: 2022
51.		Slope of Flange	Clause 12 & 13 - IS 15911: 2010, Clause 15 - IS 2062: 2011; IS 1730 :1989; IS 1732:1989; IS 808:2021; IS 1173:1978; IS 1252:2025; IS

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	Mechanical Properties of Metals		
			1863:1979; IS 3954:1991; IS 1852:1985,
52.	Metals & Metal products	Grades	Cl. 4 of IS 210: 2009
53.		Workmanship And Finish	Cl. 7.1 of IS 210: 2009
54.		Microstructure	IS 7754 (Part 1) : 2022
55.		Size Of Test Bars	Cl. 13 of IS 210: 2009
56.		Diameter & Ovality	Cl. 7 of IS 7283:1992
57.		Decarburization	IS 6396: 2023/ ISO 3887:2017
58.		Inclusion Rating	IS 4163: 2021/ ISO 4967:2013
59.		Grain Size	IS 4748: 2021/ISO 643:2019
60.		Fin Height	IS 4923:2017

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QAI/CIA/TL/2025/0116

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\*Scope Amended w.e.f.: 30 Oct 2025

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Wood and Wood Products</b>			
1.	Plywood for General Purpose	Grade & Class	IS: 303-2024, Clause: 4
2.		Type Based on Classification by Appearance	IS: 303-2024, Clause: 5
3.		Dimensions and Tolerances (Length)	IS: 303-2024, Clause: 8.1
4.		Dimensions and Tolerances (Width)	IS: 303-2024, Clause: 8.1
5.		Dimensions and Tolerances (Thickness)	IS: 303-2024, Clause: 8.2
6.		Squareness	IS: 303-2024, Clause: 8.3, Annex- C
7.		Edge Straightness	IS: 303-2024, Clause: 8.3, Annex- C
8.		Workmanship And Finish	IS: 303-2024, Clause: 9
9.		Water Resistance Test	IS: 1734 Part- 5: 1983
10.		Mycological Test	IS: 1734 Part- 7: 1983
11.		Static Bending Strength (MoR)	IS: 1734 Part- 11: 1983
12.		Static Bending Strength (MoE)	IS: 1734 Part- 11: 1983)
13.		Marking	IS: 303-2024, Clause:13
14.	Marine Plywood	Dimensions & Tolerances (Length)	IS: 710: 2024 Clause: 6.1
15.		Dimensions & Tolerances (Width)	IS: 710: 2024 Clause: 6.1

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
16.	Marine Plywood	Dimensions & Tolerances (Thickness)	IS: 710: 2024 Clause: 6.2
17.		Squareness	IS: 710: 2024 Clause: 6.3, Annex- C
18.		Edge Straightness	IS: 710: 2024 Clause: 6.3, Annex- C
19.		Workmanship And Finish	IS: 710: 2024 Clause: 7
20.		Glue Adhesion Test in Dry State (Glue Shear Strength)	IS: 1734 part- 4: 1983
21.		Glue Adhesion Test in Dry State (Adhesion of Plies)	IS: 1734 part- 5: 1983
22.		Water Resistance Test (Glue Shear Strength)	IS: 1734 part- 4: 1983
23.		Water Resistance Test (Adhesion of Plies)	IS: 1734 part- 5: 1983
24.		Tensile Strength Test	IS: 1734 part- 9: 1983
25.		Mycological Test (Glue Shear Strength)	IS: 1734 part- 4: 1983, IS: 1734 Part- 7: 1983
26.	Mycological Test (Adhesion of Plies)	IS: 1734 part- 5: 1983, IS: 1734 Part- 7: 1983	
27.	Static Bending Strength (MOE) Along the face Grain	IS: 1734 part- 11: 1983	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
28.	Marine Plywood	Static Bending Strength (MOE) Across the Face Grain	IS: 1734 part- 11: 1983
29.		Static Bending Strength (MOR) Along the face Grain	IS: 1734 part- 11: 1983
30.		Static Bending Strength (MOR) Across the Face Grain	IS: 1734 part- 11: 1983
31.		Wet Bending Strength (MOE) Along the face Grain	IS: 1734 part- 11: 1983
32.		Wet Bending Strength (MOE) Across the Face Grain	IS: 1734 part- 11: 1983
33.		Wet Bending Strength (MOR) Along the face Grain	IS: 1734 part- 11: 1983
34.		Wet Bending Strength (MOR) Across the Face Grain	IS: 1734 part- 11: 1983
35.		Marking	IS: 710:2024, Clause: 11
36.		Plywood	Determination of Density and Moisture Content
37.	Determination of Resistance to		IS 1734 (Part 2): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
		Dry Heat	
38.	Plywood	Determination of Fire Resistance	IS 1734 (Part 3): 1983
39.		Determination of Glue Shear Strength	IS 1734 (Part 4): 1983
40.		Test for Adhesion of Plies	IS 1734 (Part 5): 1983
41.		Determination of Water Resistance	IS 1734 (Part 6): 1983
42.		Mycological Test	IS 1734 (Part 7) : 1983
43.		Determination of Tensile Strength	IS 1734 (Part 9): 1983
44.		Determination of Compressive Strength	IS 1734 (Part 10): 1983
45.		Determination of Static Bending Strength	IS 1734 (Part 11): 1983
46.		Determination of scarf joint strength	IS 1734 (Part 12): 1983
47.		Determination of Panel Shear	IS 1734 (Part 13): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
		Strength	
48.	Plywood	Determination of Plate Shear Strength	IS 1734 (Part 14): 1983
49.		Impact Resistance Test	IS 1734 (Part 18): 1983
50.		Determination of Nails and screw holding power	IS 1734 (Part 19): 1983
51.		Acidity and Alkalinity Resistance Test	IS 1734 (Part 20): 1983
52.	Block Board	Grade & Class	IS: 1659: 2004 Clause: 4
53.		Dimensions & Tolerances (Length))	IS: 1659: 2004 Clause: 7
54.		Dimensions & Tolerances (Width))	IS: 1659: 2004 Clause: 7
55.		Dimensions & Tolerances (Thickness)	IS: 1659: 2004 Clause: 7
56.		Dimensional Change due to humidity	IS: 1659: 2004 Clause: 9.2.1
57.		Resistance to Water	IS: 1659: 2004 Clause: 9.2.2

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
58.	Block Board	Adhesion of Plies	IS: 1659: 2004, Clause: 9.2.3
59.		Mycological Test	IS: 1659: 2004, Clause: 9.2.4
60.		Modulus of Rupture (MOR)	IS: 1659: 2004, Clause: 9.2.5
61.		Modulus of Elasticity (MOE)	IS: 1659: 2004, Clause: 9.2.5
62.		Spot Test	IS: 1659: 2004, Clause: 9.2.6
63.		Sizes and Tolerances	Clause:5 of IS: 2202(Part 1):2023, IS:2202(Part 2):2022, IS:2191(Part 1):2022, IS:2191(Part 2):2022 &IS:15380:2023
64.	Wooden Flush Door Shutter (Solid Core Type)/ (Cellular, Hollow and Tubular Core Type) And Moulded HDF Panel Door	Workmanship and Finish	Clause:9 of IS: 2202(Part 1):2023, IS:2202(Part 2):2022, IS:2191(Part 1):2022, IS:2191(Part 2):2022 &IS: 15380:2023
65.		Marking	Clause:14 of IS: 2202(Part 1):2023, IS:2191(Part 1):2022, IS:15380:2023 And Clause :13 of IS:2202(Part 2):2022, IS:2191(Part 2):2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
66.	Wooden Flush Door Shutter (Solid Core Type)/ (Cellular, Hollow and Tubular Core Type) And Moulded HDF Panel Door	Dimensions and Squareness Test	IS:4020(Part 2):1998
67.		General Flatness Test	IS:4020(Part 3):1998
68.		Local Planeness Test	IS:4020(Part 4):1998
69.		Impact Indentation Test	IS:4020(Part 5):1998
70.		Flexure Test	IS:4020(Part 6):1998
71.		Edge Loading Test	IS:4020(Part 7):1998
72.		Shock Resistance Test	IS:4020(Part 8):1998
73.		Buckling Resistance Test	IS:4020(Part 9):1998
74.		Slamming Test	IS:4020(Part 10):1998
75.		Misuse Test	IS:4020(Part 11):1998
76.		Varying Humidity Test	IS:4020(Part 12):1998
77.		End Immersion Test	IS:4020(Part 13):1998
78.		Knife Test	IS:4020(Part 14):1998
79.	Glue Adhesion Test	IS:4020(Part 15):1998	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
80.	Wooden Flush Door Shutter (Solid Core Type)/ (Cellular, Hollow and Tubular Core Type) And Moulded HDF Panel Door	Screw Withdrawal Resistance Test	IS:4020(Part 15):1998
81.	Veneered Particle Boards	Grades and Types	Cl. 4 of IS 3097: 2006
82.		Dimensions and Tolerances	Cl. 7 of IS 3097: 2006, Annex-C
83.		Accuracy of Dimensions of Boards	IS:2380(Part 2):1977
84.		Test For Density	IS:2380(Part 3):1977
85.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977
86.		Long-time loading bending test	IS:2380(Part 13):1977
87.		Determination of water absorption	IS:2380(Part 16):1977
88.		Determination of swelling in water	IS:2380(Part 17):1977
89.		Water Resistance Test	IS 3097: 2006 Clause :9.1 (d)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
90.	Veneered Particle Boards	Adhesion of Plies	IS 3097: 2006 Clause :9.1 (f)
91.		Marking	IS 3097: 2006 Clause :11
92.	Pre-laminated Particle Boards from Wood & other Lignocellulosic Material	Grades and Types	Cl. 4 of IS 12823: 2015
93.		Dimensions and Tolerances	Cl. 8 of IS 12823: 2015, Annex-B
94.		Accuracy of Dimensions of Boards	IS:2380(Part 2):1977
95.		Test For Density	IS:2380(Part 3):1977
96.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977
97.		Test for Tensile Strength Perpendicular to surface	IS:2380(Part 5):1977
98.		Screw and nail withdrawal test	IS:2380(Part 14):1977
99.		Determination of water absorption	IS:2380(Part 16):1977
100.		Determination of swelling in water	IS:2380(Part 17):1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
101.	Pre-laminated Particle Boards from Wood & other Lignocellulosic Material	Test for Abrasion Resistance	IS 12823: 2015 Annex-C
102.		Test for Resistance to Steam	IS 12823: 2015 Annex-D
103.		Test for Crack Resistance	IS 12823: 2015 Annex-E
104.		Test for Resistance to Cigarette Burn	IS 12823: 2015 Annex-F
105.		Marking	Cl. 12 of IS 12823: 2015
106.	Medium Density Fibre Boards for General Purpose	Classification	IS: 12406:2021 Clause:4
107.		Dimensions and Tolerances	IS: 12406:2021 Clause:8, Annex-A
108.		Accuracy of Dimensions of Boards	IS:2380(Part 2):1977
109.		Test For Density	IS:2380(Part 3):1977
110.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
111.	Medium Density Fibre Boards for General Purpose	Test for Tensile Strength Perpendicular to surface	IS:2380(Part 5):1977
112.		Screw and nail withdrawal test	IS:2380(Part 14):1977
113.		Determination of water absorption	IS:2380(Part 16):1977
114.		Determination of swelling in water	IS:2380(Part 17):1977
115.		Marking	IS: 12406:2021 Clause:13
116.	Pre-laminated Medium Density Fibre Board	Classification	IS: 14587:2023 Clause:4, Table 1
117.		Accuracy of Dimensions of Boards	IS:2380(Part 2):1977
118.		Test For Density	IS:2380(Part 3):1977
119.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977
120.		Test for Tensile Strength Perpendicular to surface	IS:2380(Part 5):1977

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
121.	Pre-laminated Medium Density Fibre Board	Screw and nail withdrawal test	IS:2380(Part 14):1977
122.		Determination of swelling in water	IS:2380(Part 17):1977
123.		Edge Straightness and Squareness	IS: 14587:2023 Annex B
124.		Test for Abrasion Resistance	IS: 14587:2023 Annex-C
125.		Test for Resistance to Steam/Water vapours	IS: 14587:2023 Annex-D
126.		Test for Crack Resistance	IS: 14587:2023 Annex-E
127.		Test for Resistance to Cigarette Burn	IS: 14587:2023 Annex-F
128.		Resistance to stain	IS: 14587:2023 Annex-G
129.		Marking	IS: 14587:2023 Clause:12
130.		Particle Boards of Wood and other Lignocellulosic Materials (Medium Density) For General Purpose	Class and Types

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
131.	Particle Boards of Wood and other Lignocellulosic Materials (Medium Density) For General Purpose	Dimensions and Tolerances	IS: 3087:2005 Clause 8
132.		Accuracy of Dimensions of Boards	IS:2380(Part 2):1977
133.		Test For Density	IS:2380(Part 3):1977
134.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977
135.		Test for Tensile Strength Perpendicular to surface	IS:2380(Part 5):1977
136.		Screw and nail withdrawal test	IS:2380(Part 14):1977
137.		Determination of water absorption	IS:2380(Part 16):1977
138.		Determination of swelling in water	IS:2380(Part 17):1977
139.		Marking	IS: 3087:2005 Clause 13
140.		Wood Particle Boards and Boards from other Lignocellulosic Material	Accuracy of Dimensions of Boards

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
141.	Wood Particle Boards and Boards from other Lignocellulosic Material	Test For Density	IS:2380(Part 3):1977
142.		Test for Modulus of Rupture (MOR) and Modulus of Elasticity (MOE)	IS:2380(Part 4):1977
143.		Test for Tensile Strength Perpendicular to surface	IS:2380(Part 5):1977
144.		Long-time loading bending test	IS:2380(Part 13):1977
145.		Screw and nail withdrawal test	IS:2380(Part 14):1977
146.		Determination of water absorption	IS:2380(Part 16):1977
147.		Determination of swelling in water	IS:2380(Part 17):1977



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
1.	Alloy Steel & Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Aluminium	ASTM E415
2.		Aluminium	IS 8811
3.		Aluminium	JIS G 1253
4.		Arsenic	ASTM E415
5.		Arsenic	IS 8811
6.		Arsenic	JIS G 1253
7.		Lead	ASTM E415
8.		Lead	JIS G 1253
9.		Boron	ASTM E415
10.		Boron	IS 8811
11.		Boron	JIS G 1253
12.		Calcium	ASTM E415
13.		Carbon	ASTM E415
14.		Carbon	IS 8811
15.		Carbon	JIS G 1253
16.		Silicon	JIS G 1253
17.		Chromium	ASTM E415
18.		Chromium	IS 8811
19.		Chromium	JIS G 1253
20.		Cobalt	ASTM E415
21.		Cobalt	IS 8811

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
22.	Alloy Steel & Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Copper	ASTM E415
23.		Copper	IS 8811
24.		Copper	JIS G 1253
25.		Manganese	ASTM E415
26.		Manganese	IS 8811
27.		Manganese	JIS G 1253
28.		Molybdenum	ASTM E415
29.		Molybdenum	IS 8811
30.		Molybdenum	JIS G 1253
31.		Nickel	ASTM E415
32.		Nickel	IS 8811
33.		Nickel	JIS G 1253
34.		Niobium	ASTM E415
35.		Niobium	IS 8811
36.		Niobium	JIS G 1253
37.		Nitrogen	ASTM E415
38.		Nitrogen	JIS G 1253
39.		Phosphorous	ASTM E415
40.		Phosphorous	IS 8811
41.		Phosphorous	JIS G 1253
42.		Silicon	ASTM E415

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Atckon Laboratories LLP**

Plot No. 45, M.I.E, Phase -I, Bahadurgarh  
Jhajjar-124507, Haryana, India

QAI/CIA/TL/2025/0116

Valid from: 06 May 2025

\*Scope Amended w.e.f.: 30 Oct 2025

Valid until: 05 May 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
43.	Alloy Steel & Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Silicon	IS 8811
44.		Silicon	JIS G 1253
45.		Sulphur	ASTM E415
46.		Sulphur	IS 8811
47.		Sulphur	JIS G 1253
48.		Tin	ASTM E415
49.		Tin	IS 8811
50.		Tin	JIS G 1253
51.		Titanium	ASTM E415
52.		Titanium	IS 8811
53.		Titanium	JIS G 1253
54.		Vanadium	ASTM E415
55.		Vanadium	IS 8811
56.		Vanadium	JIS G 1253
57.		Zirconium	ASTM E415
58.		Zirconium	IS 8811
59.		Tungsten	JIS G 1253
60.		Magnesium	JIS G 1253
61.		Tantalum	JIS G 1253
62.		Selenium	JIS G 1253
63.	Aluminium & its Alloys	Boron	ASTM E1251
64.		Berellium	ASTM E1251
65.		Cobalt	ASTM E1251

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Metals &amp; Alloys</b>			
66.	Aluminium & its Alloys	Chromium	ASTM E1251	
67.		Copper	ASTM E1251	
68.		Iron	ASTM E1251	
69.		Magnesium	ASTM E1251	
70.		Manganese	ASTM E1251	
71.		Nickel	ASTM E1251	
72.		Lead	ASTM E1251	
73.		Antimony	ASTM E1251	
74.		Silicon	ASTM E1251	
75.		Tin	ASTM E1251	
76.		Titanium	ASTM E1251	
77.		Vanadium	ASTM E1251	
78.		Zinc	ASTM E1251	
79.		Zirconium	ASTM E1251	
80.		Bismuth	ASTM E1251	
81.		Calcium	ASTM E1251	
82.		Gallium	ASTM E1251	
83.		Lithium	ASTM E1251	
84.		Sodium	ASTM E1251	
85.		Strontium	ASTM E1251	
86.		Copper & its Alloys	Silver	EN 15079
87.			Aluminium	BS EN 15079
88.			Arsenic	BS EN 15079

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
89.	Copper & its Alloys	Gold	BS EN 15079
90.		Boron	BS EN 15079
91.		Beryllium	BS EN 15079
92.		Bismuth	BS EN 15079
93.		Cadmium	BS EN 15079
94.		Cobalt	BS EN 15079
95.		Chromium	BS EN 15079
96.		Mercury	BS EN 15079
97.		Magnesium	BS EN 15079
98.		Iron	BS EN 15079
99.		Manganese	BS EN 15079
100.		Nickel	BS EN 15079
101.		Phosphorus	BS EN 15079
102.		Lead	BS EN 15079
103.		Sulphur	BS EN 15079
104.		Antimony	BS EN 15079
105.		Selenium	BS EN 15079
106.		Silicon	BS EN 15079
107.		Tin	BS EN 15079
108.		Tellurium	BS EN 15079
109.		Titanium	BS EN 15079
110.		Zinc	BS EN 15079
111.		Zirconium	BS EN 15079

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
112.	Copper & its Alloys	Copper	IS:440
113.		Copper	IS:3685
114.		Oxygen	IS:440
115.	Stainless Steel	Aluminium	JIS G 1253
116.		Boron	JIS G 1253
117.		Carbon	JIS G 1253
118.		Carbon	ASTM E1086
119.		Cobalt	JIS G 1253
120.		Chromium	JIS G 1253
121.		Chromium	ASTM E1086
122.		Copper	JIS G 1253
123.		Copper	ASTM E 1086
124.		Manganese	JIS G 1253
125.		Manganese	ASTM E 1086
126.		Molybdenum	JIS G 1253
127.		Molybdenum	ASTM E 1086
128.		Nitrogen	JIS G 1253
129.		Niobium	JIS G 1253
130.		Nickel	JIS G 1253
131.		Nickel	ASTM E 1086
132.	Phosphorus	JIS G 1253	
133.	Phosphorus	ASTM E 1086	
134.	Sulphur	JIS G 1253	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
135.	Stainless Steel	Sulphur	ASTM E 1086
136.		Silicon	JIS G 1253
137.		Silicon	ASTM E 1086
138.		Tin	JIS G 1253
139.		Titanium	JIS G 1253
140.		Vanadium	JIS G 1253
141.		Tungsten	JIS G 1253
142.		Zirconium	JIS G 1253
143.		Arsenic	JIS G 1253
144.		Lead	JIS G 1253
145.		Magnesium	JIS G 1253
146.		Calcium	JIS G 1253
147.		Tantalum	JIS G 1253
148.		Antimony	JIS G 1253
149.		Selenium	JIS G 1253
150.		Tellurium	JIS G 1253
151.		Lanthanum	JIS G 1253
152.	Cerium	JIS G 1253	
153.	Cast Iron/Pig Iron	Carbon	ASTM E 1999
154.		Chromium	ASTM E 1999
155.		Copper	ASTM E 1999
156.		Manganese	ASTM E 1999
157.		Molybdenum	ASTM E 1999

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
158.	Cast Iron/Pig Iron	Nickel	ASTM E 1999
159.		Phosphorus	ASTM E 1999
160.		Sulphur	ASTM E 1999
161.		Silicon	ASTM E 1999
162.		Tin	ASTM E 1999
163.		Titanium	ASTM E 1999
164.		Vanadium	ASTM E 1999

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
1.	Plywood for General Purpose	Formaldehyde Content Test	IS: 13745-2020
2.	Marine Plywood	Formaldehyde Content Test	IS: 13745-2020
3.	Pre-laminated Particle Boards from Wood and other Lignocellulosic Material	Formaldehyde Content Test	IS: 13745-2020
4.	Medium Density Fibre Boards for General Purpose	Formaldehyde Content Test	IS: 13745-2020
5.	Pre-laminated Medium Density Fibre Board	Formaldehyde Content Test	IS: 13745-2020
6.	Plywood for General Purpose	Moisture Content	IS: 1734 Part- 1: 1983
7.	Marine Plywood	Moisture Content	IS: 1734 part- 1: 1983
8.		Retention of Preservative	IS: 710: 2024 Clause: 9.10
9.	Plywood	Determination of Density and Moisture Content	IS 1734 (Part 1): 1983
10.		Determination of pH Value	IS 1734 (Part 8): 1983

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
11.	Veneered Particle Boards	Test for Moisture Content	IS:2380(Part 3):1977
12.	Pre-laminated Particle Boards from Wood & other Lignocellulosic Material	Test for Moisture Content	IS:2380(Part 3):1977
13.	Medium Density Fibre Boards for General Purpose	Test for Moisture Content	IS:2380(Part 3):1977
14.	Pre-laminated Medium Density Fibre Board	Test for Moisture Content	IS:2380(Part 3):1977
15.	Particle Boards of Wood and other Lignocellulosic Materials (Medium Density) For General Purpose	Test for Moisture Content	IS:2380(Part 3):1977
16.	Wood Particle Boards and Boards from other Lignocellulosic Material	Test for Moisture Content	IS:2380(Part 3):1977
17.	Plywood for General Purpose	Adhesive	IS: 848:2025
18.	Marine Plywood	Adhesive	IS: 848:2025
19.	Block Board	Adhesive	IS: 848:2025

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Valid from: 06 May 2025

\*Scope Amended w.e.f.: 30 Oct 2025

Valid until: 05 May 2027

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
20.	Wooden Flush Door Shutter (Solid Core Type)/ (Cellular, Hollow and Tubular Core Type) And Moulded HDF Panel Door	Adhesive	IS: 848:2025
21.	Veneered Particle Boards	Adhesive	IS: 848:2025
22.	Pre-laminated Particle Boards from Wood & other Lignocellulosic Material	Adhesive	IS: 848:2025
23.	Medium Density Fibre Boards for General Purpose	Adhesive	IS: 848:2025
24.	Pre-laminated Medium Density Fibre Board	Adhesive	IS: 848:2025
25.	Particle Boards of Wood and other Lignocellulosic Materials (Medium Density) For General Purpose	Adhesive	IS: 848:2025

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# Quality And Accreditation Institute Centre for International Accreditation

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*Scope of Accreditation*

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*QAI/CIA/TL/2025/0116*

*Valid from: 06 May 2025*

*\*Scope Amended w.e.f.: 30 Oct 2025*

*Valid until: 05 May 2027*

*Accreditation Standard: ISO/IEC 17025:2017*

**\*Note: Scope Extension 1:**

Following scope of accreditation is extended w.e.f. 30 October 2025:

Mechanical Testing- Wood and Wood Products (S. No.- 1 to 147; Page no.16 to 29)

Mechanical Testing – Mechanical Properties of Metals (S. No.- 1 to 60; Page no.5 to 15)

Chemical Testing- Metals and Alloys (S.No. 1 to 164; Page no.30 to 37)

Chemical Testing – Wood and Wood Products (S. No.- 1 to 25; Page no.38 to 40)

