

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

KSA LABS LLP

J-61, BIDD Gorwa Industrial Estate, Gorwa,
Vadodara- 390016, Gujarat, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

*This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.*



QAI/CIA/TL/2025/0110

Valid from: 07 April 2025

Valid until: 06 April 2027

A handwritten signature in black ink, appearing to read 'Bhupendra'.

Dr. Bhupendra Kumar Rana
Chief Executive Officer

A handwritten signature in black ink, appearing to read 'Vikram'.

Prof. Vikram Kumar
Chair, CIA



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textiles		
1.	Packaging Textiles	Fabric Width	IS 9755:2021-CL 4.2, IS 11652: 2017 CL 4.2, IS 16703:2017 (RA 2022) CL 4.2, IS 6192:2023 Annex B
2.		Linear Density	IS 9755:2021-CL 4.2, IS 11652: 2017 CL 4.2, IS 16703:2017 (RA 2022) CL 4.2, IS 6192:2023 Annex C
3.		Mesh	IS 9755:2021-CL 4.2, IS 11652: 2017 CL 4.2, IS 16703:2017 (RA 2022) CL 4.2
4.		Mass of Fabric	IS 9755:2021-CL 4.2, IS 11652: 2017 CL 4.2, IS 16703:2017 (RA 2022) CL 4.2
5.		Sacks Visual Construction	IS 9755:2021-CL 4.3, IS 11652: 2017 CL 4.3, IS 16703:2017 (RA 2022) CL 4.3
6.		Liner Thickness	IS 16703:2017 (RA 2022) CL 4.5, IS 2508:2024
7.		Liner Visual Observation	IS 9755:2021-CL 4.4.2, IS 16703:2017(RA 2022) CL 4.5
8.		Liner Construction	IS 9755:2021-CL 4.4.3, 16703:2017 (RA 2022) CL 4.5
9.		Mass of Lamination	IS 9755:2021-CL 4.5, IS 16703:2017 (RA 2022) CL 4.4
10.		Mass of Laminated Fabric	IS 9755:2021-CL 4.5



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	Textiles		
11.	Packaging Textiles	Lamination Overhung	IS 9755:2021-CL 4.5, IS 16703:2017 (RA 2022) CL 4.4, IS 11652: 2017 CL 4.5
12.		Stitches Separation	IS 9755:2021-CL 4.6.1, IS 11652: 2017 CL 4.4
13.		Outer Stitches from bottom edge	IS 9755:2021-CL 4.6.1, IS 11652: 2017 CL 4.4, IS 16703:2017 (RA 2022) CL 4.3.1
14.		Depth of seam	IS 9755:2021-CL 4.6.1, IS 11652: 2017 CL 4.4, IS 16703:2017 (RA 2022) CL 4.3.1
15.		No of stitches	IS 9755:2021-CL 4.6.1, IS 11652: 2017 CL 4.4, IS 16703:2017 (RA 2022) CL 4.3.1, IS 16703:2017 (RA 2022) CL 4.3.1
16.		Breaking Load of Stitching material	IS 9755:2021-CL 4.6.2, IS 16703:2017 (RA 2022) CL 4.3.1, IS 1692 Annex D
17.		Mouth of sack	IS 9755:2021-CL 4.7
18.		Length of sack	IS 9755:2021-Annex B, IS 11652: 2017, Annex B, IS 16703:2017 (RA 2022), Annex B
19.		Width of sack	IS 9755:2021-Annex B, IS 11652: 2017, Annex B, IS 16703:2017 (RA 2022), Annex B
20.		Ends per dm	IS 9755:2021-Annex B, IS 11652: 2017, Annex B, IS 16703:2017 (RA 2022), Annex B

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textiles		
21.	Packaging Textiles	Picks per dm	IS 9755:2021-Annex B, IS 11652: 2017, Annex B, IS 16703:2017 (RA 2022), Annex B
22.		Mass of fabric (Unlaminated)	IS 9755:2021-Annex B
23.		Mass of fabric (Laminated)	IS 9755:2021-Annex B
24.		Mass per unit length & unit Area	IS 1964:2001 (Ra 2022),
25.		Avg breaking strength of fabric (ravelled strip method)	IS 1969:2018 (Part 1) (RA 2024)
26.		Elongation at break of fabric (ravelled strip method)	IS 1969:2018 (Part 1) (RA 2024)
27.		Breaking strength of seam (ravelled strip method)	IS 9030:2024
28.		Ash content - Non-UV stabilized sacks	IS 9755:2021-Annex C, IS 11652: 2017, Annex D, IS 16703:2017 (RA 2022), Annex D
29.		Drop impact strength	IS 9755:2021-Annex D, IS 11652: 2017-Annex C, IS 16703:2017 (RA 2022), Annex C
30.		Visual Inspection Test	IS 9755:2021-CI 5.2
31.		Fabric Construction	IS 11652: 2017 CL 4.2
32.		Stitching Uniformity & missing	IS 11652: 2017 CL 4.4
33.		Stitching Material Density	IS 11652: 2017 CL 4.4
34.		Stitching material conformation	IS 11652: 2017 CL 4.4
35.		Uniformity of stitching	IS 11652: 2017 CL 4.4

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textiles		
36.	Packaging Textiles	Nominal Capacity of sack	IS 11652: 2017 CL 4.6, IS 16703:2017 (RA 2022) CL 4.6
37.		Valve for filling sacks	IS 11652: 2017 CL 4.7
38.		Width of gusset	IS 11652: 2017, Annex B, IS 16703:2017 (RA 2022), Annex B
39.		Width of valve	IS 11652: 2017, Annex B
40.		Depth of valve	IS 11652: 2017, Annex B/CL 4.7
41.		Bottom fold length	IS 16703:2017 (RA 2022), Annex B
42.		Fabric Construction	IS 16703:2017 (RA 2022) CL 4.2



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
1.	Plywood for general purpose/Marine Plywood/ Plywood for concrete shuttering	Classification by appearance	IS 303:2024 CI 5
2.		Quality requirements of surface and no of defect	IS 303:2024 CI 5.2 Table 1
3.		Length	IS 303:2024 CI 8.1, IS 710:2024 CI 6.1, IS 4990:2024 CI 7.1
4.		Width	IS 303:2024 CI 8.1, IS 710:2024 CI 6.1, IS 4990:2024 CI 7.1
5.		Thickness	IS 303:2024 CI 8.2, IS 710:2024 CI 6.2, IS 4990:2024 CI 7.2
6.		Squareness	IS 303:2024 Annex C, IS 710:2024 Annex C, IS 4990:2024 Annex C
7.		Edge Straightness	IS 303:2024 Annex C, IS 710:2024 Annex C, IS 4990:2024 Annex C
8.		Workmanship and finish	IS 303:2024 (CI 9.1,9.2,8.4 & Annex C), IS 710:2024 (CI 7.1 to 7.6), IS 4990:2024 (CI 8.1, 8.2 & 8.3)
9.		Modulus of Rupture (Static Bending Strength) (Along & Across the Face Grains)	IS 1734 (P-11): 1983 RA:2018
10.		Modulus of Elasticity (Static Bending Strength)	IS 1734 (P-11): 1983 RA:2018
11.		Cyclic Test	IS 710:2024 CI 9.9, IS 4990:2024 CI 10.10
12.		Modulus of Rupture (Wet Bending Strength) (Along & Across the Face Grains)	IS 1734 (P-11): 1983 RA:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
13.	Plywood for general purpose/Marine Plywood/Plywood for concrete shuttering	Modulus of Elasticity (Wet Bending Strength) (Along & Across the Face Grains)	IS 1734 (P-11): 1983 RA:2018
14.		Water Resistance Test	IS 303:2024 CI 11.3.1.1, IS 710:2024 CI 9.5.1, IS 4990:2024 CI 10.5.1
15.		Mycological test	IS 1734 (Part 7): 1983 RA:2018
16.		Adhesion of Plies	IS 1734 (Part 5): 1983 RA:2018
17.		Glue shear strength - Dry state	IS 1734 (Part 4): 1983 RA:2018
18.		Glue shear strength - Wet state	IS 1734 (Part 4): 1983 RA:2018
19.		Tensile Strength Parallel to grain direction	IS 1734 (Part 9): 1983 RA:2018
20.		Tensile Strength Right angles to grain direction	IS 1734 (Part 9): 1983 RA:2018
21.		Moisture content	IS 1734 (Part 1): 1983 RA:2018
22.		Surface Defects & Tolerances	IS 303:2024 Table 1 & 3, IS 1328:1996 CI 7.1 & 7.2 (RA: 2022)
23.	Block Board	Thickness	IS 1659:2004 (RA: 2019) Annex D
24.		Length	IS 1659:2004 (RA: 2019) CI 7.2
25.		Width	IS 1659:2004 (RA: 2019) CI 7.2
26.		Edge Straightness	IS 1659:2004 (RA: 2019) CI 7.3
27.		Squareness	IS 1659:2004 (RA: 2019) CI 7.3
28.		Dimensional changes caused by Humidity	IS 1659:2004 (RA :2019) Annex E

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
29.	Block Board	Spot Test	IS 1659:2004 (RA: 2019) Annex K
30.		Resistance to Water	IS 1659:2004 (RA :2019) Annex F
31.		Adhesion of Plies	IS 1659:2004 (RA: 2019) Annex G
32.		Mycological Test	IS 1659:2004 (RA: 2019) Annex H
33.		Modulus of Rupture	IS 1659:2004 (RA: 2019) Annex J
34.		Modulus of Elasticity	IS 1659:2004 (RA :2019) Annex J
35.	Medium Density Fibre Board	Length	IS 12406:2021 Cl 8.1
36.		Width	IS 12406:2021 Cl 8.1
37.		Thickness	IS 12406:2021 Cl 8.1
38.		Edge Straightness	IS 12406:2021 Annex A
39.		Squareness	IS 12406:2021 Annex A
40.		Density	IS 2380 (Part 3):1977 (RA: 2018)
41.		Variation from mean density (%)	IS 2380 (Part 3):1977 (RA: 2018)
42.		Moisture content	IS 2380 (Part 3):1977 (RA: 2018)
43.		Variation from mean moisture content	IS 2380 (Part 3):1977 (RA: 2018)
44.		Linear expansion thickness swelling in water	IS 2380 (Part 17):1977 (RA :2018)
45.		Internal bond strength	IS 2380 (Part 5):1977 (RA :2018)
46.		Internal bond strength (After Cyclic test)	IS 12406:2021 Table 1 – Note 1, IS 2380 (Part 5):1977 (RA: 2018)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
47.	Medium Density Fibre Board	Internal bond strength (After accelerated water resistance test)	IS 12406:2021 Table 1 – Note 2, IS 2380 (Part 5):1977 (RA :2018)
48.		Modulus of rupture	IS 2380 (Part 4):1977 (RA: 2018)
49.		Modulus of elasticity	IS 2380 (Part 4):1977 (RA: 2018)
50.		Screw withdrawal strength	IS 2380 (Part 14):1977 (RA: 2018)
51.	Wooden Flush Door Shutters	Construction	IS 2202 (Part-1):2023 Cl 7.1 & 7.2
52.		Stiles & Rails	IS 2202 (Part-1):2023 Cl 7.3
53.		Height	IS 4020 (Part-2) :1998 (RA: 2018)
54.		Nominal thickness	IS 4020 (Part-2) :1998 (RA :2018)
55.		Uniformity of Thickness	IS 4020 (Part-2) :1998 (RA :2018)
56.		Width	IS 4020 (Part-2) :1998 (RA: 2018)
57.		Squareness	IS 4020 (Part-2) :1998 (RA: 2018)
58.		Workmanship and Finish	IS 2202 (Part-1):2023 Cl 9.1, 9.2, 9.3
59.		General Flatness Test	IS 4020 (Part-3) :1998 (RA :2018)
60.		Local Planeness Test	IS 4020 (Part-4) :1998 (RA: 2018)
61.		Impact Indentation Test	IS 4020 (Part-5) :1998 (RA :2018)
62.		Deflection (Flexure Test)	IS 4020 (Part-6) :1998 (RA: 2018)
63.		Deflection (Edge Loading Test)	IS 4020 (Part-7) :1998 (RA: 2018)
64.		Shock Resistance Test	IS 4020 (Part-8) :1998 (RA :2018)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
65.	Wooden Flush Door Shutters	Buckling Resistance Test	IS 4020 (Part-9) :1998 (RA: 2018)
66.		(Deformation) Buckling Resistance Test	IS 4020 (Part-9) :1998 (RA :2018)
67.		Slamming Test	IS 4020 (Part-10) :1998 (RA: 2018) CI 3.1
68.		Misuse Test	IS 4020 (Part-11) :1998 (RA :2018)
69.		Varying Humidity Test	IS 4020 (Part-12) :1998 (RA: 2018)
70.		End Immersion Test	IS 4020 (Part-13) :1998 (RA :2018)
71.		Knife Test	IS 4020 (Part-14) :1998 (RA: 2018)
72.		Glue Adhesion Test	IS 4020 (Part-15) :1998 (RA :2018)
73.		Screw Withdrawal Resistance Test	IS 4020 (Part-16) :1998 (RA :2018)

