

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Elutech Laboratory and Calibration Services

Plot No. 1, Bajrang Vihar-9, New Loha Mandi Road, Macheda,
Jaipur- 302013, Rajasthan, 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/2024/0059

Valid from: 12 June 2024

Valid until: 11 June 2026

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	Retention of preservative (Boron)	IS 2753 (P-1): 1991 RA:2020
		Retention of preservative (Chromium)	IS 2753 (P-1): 1991 RA:2020
		Retention of preservative (Copper)	IS 2753 (P-1): 1991 RA:2020
		Retention of preservative (Fuel oil & creosote)	IS 2753 (P-1): 1991 RA:2020
		Retention of preservative (Zinc)	IS 2753 (P-1): 1991 RA:2020
		Retention of preservative (Arsenic)	IS 2753 (P-1): 1991 RA: 2020
2.	Medium density fibre boards / Particle boards / Prelaminated medium density fibre board / Prelaminated particle boards / wood products	Formaldehyde content	IS 13745: 2020
3.	Marine plywood (IS 710:2024)	Formaldehyde content	IS 13745: 2020
4.	Plywood for concrete shuttering work (IS 4990:2024)	Formaldehyde content	IS 13745: 2020
5.	Plywood for general purposes (IS303:2024)	Formaldehyde content	IS 13745: 2020
6.	Synthetic resin adhesives for plywood (Phenolic and aminoplastic) - specification (second revision)	Acidity and Alkalinity (pH value) IS 848 (Annex-B)	IS 848: 2006

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
1.	Block board (IS 1659:2004)	Length	IS 1659: 2004 RA:2019
		Width	IS 1659: 2004 RA:2019
		Thickness	IS 1659: 2004 RA:2019
		Edge Straightness	IS 1659: 2004 RA:2019
		Squareness	IS 1659: 2004 RA:2019
		Adhesion of plies	IS 1659: 2004 RA:2019
		Mycological test	IS 1659: 2004 RA:2019
		Water resistance test	IS 1659: 2004 RA:2019
		Modulus of rupture	IS 1659: 2004 RA:2019
		Modulus of elasticity	IS 1659: 2004 RA:2019
		Dimension change caused by humidity (length, thickness, planeness & delamination)	IS 1659: 2004 RA:2019
		Spot test	IS 1659: 2004 RA:2019
		Surface defect	IS 1659: 2004 RA:2019
2.	Fire retardant plywood (IS 5509:2021)	Length	IS 5509: 2021
		Width	IS 5509: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
		Thickness	IS 5509: 2021
		Edge straightness	IS 5509: 2021
		Squareness	IS 5509: 2021
		Flame penetration	IS 1734 (P-3): 1983 RA: 2018
		Flammability	IS 1734 (P-3): 1983 RA: 2018
		Rate of burning	IS 1734 (P-3): 1983 RA: 2018
		Moisture content	IS 1734 (P-1): 1983 RA: 2018
		Workmanship and finish	IS 5509: 2021
		Water resistance	IS 5509: 2021
		Static bending strength modulus of rupture (along and across the grains)	IS 5509: 2021
		Static bending strength modulus of elasticity (along & across the grains)	IS 5509: 2021
3.	Marine Plywood (IS 710:2024)	Length	IS 710: 2024
		Width	IS 710: 2024
		Thickness	IS 710: 2024
		Edge straightness	IS 710: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
		Squareness	IS 710: 2024
		Workmanship and finish	IS 710: 2024
		Moisture content	IS 1734 (P-1): 1983 RA:2018
		Adhesion of plies	IS 1734 (P-5): 1983 RA:2018
		Glue shear strength (dry state)	IS 1734 (P-4): 1983 RA:2018
		Mycological test	IS 1734 (P-7): 1983 RA:2018
		Mycological test (glue shear strength)	IS 1734 (P-4): 1983 RA:2018
		Static bending strength modulus of rupture (along and across the grains)	IS 1734 (P-11): 1983 RA:2018
		Static bending strength modulus of elasticity (along and across the grains)	IS 1734 (P-11): 1983 RA:2018
		Tensile strength parallel to surface - right angles to the grains	IS 1734 (P-9): 1983 RA:2018
		Tensile strength parallel to surface - parallel to the grains	IS 1734 (P-9): 1983 RA:2018
		Wet bending strength MOR (along & across the grain direction)	IS 1734 (P-4 & 6): 1983 RA:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
		Wet bending strength MOE (along & across the grain direction)	IS 1734 (P-4 & 6): 1983 RA:2018
		Water resistance (glue shear strength)	IS 1734 (P-4 & 6): 1983 RA:2018
		Water resistance test (adhesion of plies)	IS 1734 (P-5 & 6): 1983 RA:2018
4.	Plywood for concrete shuttering work (IS 4990:2024)	Length	IS 4990: 2024
		Width	IS 4990: 2024
		Thickness	IS 4990: 2024
		Edge straightness	IS 4990: 2024
		Squareness	IS 4990: 2024
		Workmanship and finish	IS 4990: 2024
		Moisture content	IS 1734 (P-1): 1983 RA:2018
		Glue adhesion test (adhesion of plies)	IS 1734 (P-5): 1983 RA:2018
		Glue adhesion test (glue Shear Strength)	IS 1734 (P-4): 1983 RA:2018
		Mycological test (adhesion of plies)	IS 1734 (P-5 & 7): 1983 RA:2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
		Mycological test (glue shear strength)	IS 1734 (P-4 & 7): 1983 RA:2018
		Static bending strength modulus of rupture (along & across the grains)	IS 1734 (P-11): 1983 RA:2018
		Static bending strength modulus of elasticity (along & across the grains)	IS 1734 (P-11): 1983 RA:2018
		Tensile strength parallel to the grain direction	IS 1734 (P-9): 1983 RA:2018
		Tensile strength right angle to the grain direction	IS 1734 (P-9): 1983 RA:2018
		Water resistance (glue shear strength)	IS 1734 (P-4 & 6): 1983 RA:2018
		Water resistance test (adhesion of plies)	IS 1734 (P-5 & 6): 1983 RA:2018
		Wet bending strength modulus of rupture (along & across the grains)	IS 1734 (P-11): 1983 RA: 2018
		Wet bending strength modulus of elasticity (along & across the grains)	IS 1734 (P-11): 1983 RA:2018
		Plywood with plastic coating or overlay	IS 4990:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
5.	Plywood for general purposes	Length	IS 303: 2024
		Width	IS 303: 2024
		Thickness	IS 303: 2024
		Edge straightness	IS 303: 2024
		Squareness	IS 303: 2024
		Workmanship and finish	IS 303: 2024
		Moisture content	IS 1734 (P-1): 1983 RA:2018
		Glue adhesion test	IS 1734 (P-5): 1983 RA:2018
		Mycological test	IS 1734 (P-7): 1983 RA:2018
		Water resistance test	IS 1734 (P-5 & 6): 1983 RA:2018
		Static bending strength modulus of rupture (along & across the grains)	IS 1734 (P-11): 1983 RA:2018
		Static bending strength modulus of elasticity (along & across the grains)	IS 1734 (P-11): 1983 RA:2018
		Classification by appearance	IS 303:2024
Quality requirement of surface and no of defect	IS 303:2024		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
6.	Synthetic resin adhesives for plywood (phenolic and aminoplastic) - specification (IS 848 :2006)	Cyclic test	IS 848: 2006
		Quality of resins adhesive	IS 848: 2006
7.	Veneered decorative plywood-specification (IS 1328: 1996)	Requirement (visual defects)	IS 1328: 1996
		Dimensions and tolerances (thickness)	IS 1328: 1996
		Finish	IS 1328: 1996
		Moisture content	IS 1328: 1996 IS 1734 (part 1): 1983
		Water resistance test	IS 1328: 1996
8.	Plywood for General Purposes	Length	IS303:1989 RA:2018
		Width	IS303:1989 RA:2018
		Thickness	IS303:1989 RA:2018
		Edge Straightness	IS303:1989 RA:2018
		Squareness	IS303:1989 RA:2018
		Workmanship and Finish	IS303:1989 RA:2018
		Moisture Content	IS1734(P1): 1983 RA:2018
		Glue Adhesion test	IS1734(P5): 1983 RA:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
8.	Plywood for General Purposes	Mycological test	IS1734(P7): 1983 RA:2018
		Water resistance test	IS 1734(P-5&6): 1983 RA:2018
		Static Bending Strength Modulus of Rupture (Along & Across the Grains)	IS1734(P11): 1983 RA:2018
		Static Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS1734(P11): 1983 RA:2018
		Classification by appearance	IS303:1989
		Quality requirement of surface and no. of defect	IS 303:1989
		9.	Marine Plywood
Width	IS710:2010 RA:2022		
Thickness	IS710:2010 RA:2022		
Edge Straightness	IS710:2010 RA:2022		
Squareness	IS710:2010 RA:2022		
Workmanship and Finish	IS710:2010 RA:2022		
Moisture Content	IS1734(P1:1983 RA:2018)		
Adhesion of Plies	IS 1734(P-5): 1983 RA:2018		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
9.	Marine Plywood	Glue Shear Strength	IS 1734(P-4): 1983 RA:2018
		Mycological test	IS 1734(P-7): 1983 RA:2018
		Mycological test (Glue Shear Strength)	IS 1734(P-4): 1983 RA:2018
		Static Bending Strength Modulus of Rupture (Along & Across the Grains)	IS 1734(P-11): 1983 RA:2018
		Static Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983 RA:2018
		Tensile strength parallel to surface -Right angles to the grains	IS 1734(P-9): 1983 RA:2018
		Tensile strength parallel to surface -Parallel to the grains	IS 1734(P-9): 1983 RA:2018
		Water resistance (Glue shear strength)	IS 1734(P-4&6): 1983 RA:2018
		Water resistance test (Adhesion of Plies)	IS 1734(P-5&6): 1983 RA:2018
		Wet Bending Strength Modulus of Rupture (Along & Across the grains)	IS 1734(P-11): 1983 RA:2018



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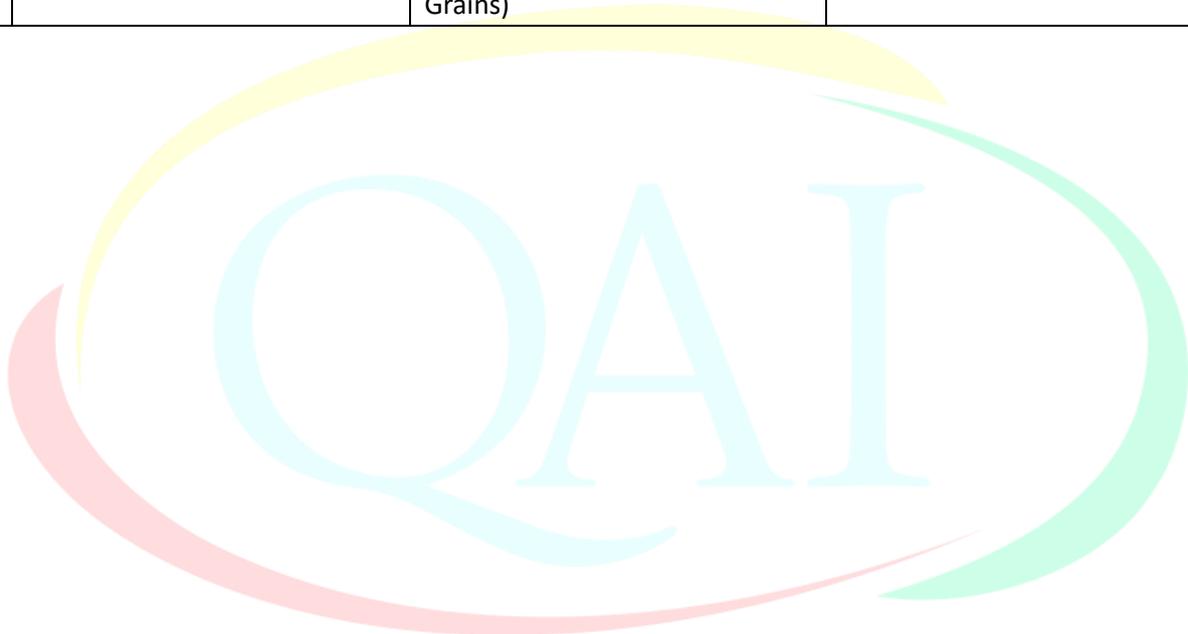
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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
9.	Marine Plywood	Wet Bending Strength Modulus of Elasticity (Along & Across the Grains)	IS 1734(P-11): 1983 RA:2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
1.	Concrete Paving Blocks	General Quality	IS 15658:2021(All Grades M-30,M-35,M-40,M-50,M-55)
2.		Visual Inspection	IS 15658:2021
3.		Colour and texture	IS 15658:2021
4.		Spacer Nibs	IS 15658:2021
5.		Dimensions and Tolerances	IS 15658:2021
6.		Higher Width (W) (Average)	IS 15658:2021
7.		Lower Width (W) (Average)	IS 15658:2021
8.		Length (L)	IS 15658:2021
9.		Thickness (Th.) (Average)	IS 15658:2021
10.		Aspect Ratio (L/Th.) (Average)	IS 15658:2021
11.		Arris/ Chamfer (Width)	IS 15658:2021
12.		Arris / Chamfer (Depth)	IS 15658:2021
13.		Thickness of Wearing Layer	IS 15658:2021
14.		Plan Area (Asp)	IS 15658:2021
15.		Ratio of Wearing Face Area and Plan Area (Asw/Asp)	IS 15658:2021
16.		Deviation from Squareness	IS 15658:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
17.		Water Absorption	IS 15658:2021
18.		Individual	IS 15658:2021
19.		Average	IS 15658:2021
20.		Compressive strength	IS 15658:2021
21.		Abrasion Resistance Dry Condition	IS 15658:2021
22.		Wet Condition	IS 15658:2021
23.		Tensile Spitting Strength	IS 15658:2021
24.		Flexural Strength	IS 15658:2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
1.	Laboratory Glass ware (One-mark Volumetric flask)	Classes of accuracy Class A/ Class B	IS 915: 2012
2.		Nominal Capacity	IS 915: 2012
3.		Accuracy (maximum Permitted Errors)	IS 915: 2012
4.		Construction	IS 915: 2012
5.		Wall thickness	IS 915: 2012
6.		Shape	IS 915: 2012
7.		Neck	IS 915: 2012
8.		Stopper	IS 915: 2012
9.		Dimensions	IS 915: 2012
10.		Nominal Capacity	IS 915: 2012
11.		Graduation line	IS 915: 2012
12.		Marking and designation	IS 915: 2012
13.		Visibility of graduation line, figures and marking	IS 915: 2012
14.			Capacity

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Glass Wares			
15.	Laboratory Glass ware (Glass Beakers)	Material	IS 2619: 2018	
16.		Dimensions	IS 2619: 2018	
17.		Nominal capacity	IS 2619: 2018	
18.		External diameter	IS 2619: 2018	
19.		Overall height	IS 2619: 2018	
20.		Wall thickness	IS 2619: 2018	
21.		Radius at base	IS 2619: 2018	
22.		Base	IS 2619: 2018	
23.		Upper edge	IS 2619: 2018	
24.		Spout	IS 2619: 2018	
25.		Scale	IS 2619: 2018	
26.		Laboratory Glassware (Graduated Measuring Cylinders)	Types	IS 878: 2008
27.			Class of Accuracy	IS 878: 2008
28.	a) Series of capacities and dimensions		IS 878: 2008	
29.	b) Nominal capacity		IS 878: 2008	
30.	c) Overall height		IS 878: 2008	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
31.	Laboratory Glassware (Graduated Measuring Cylinders)	d) Distance from top of scale to top of cylinder	IS 878: 2008
32.		e) Internal height to highest graduation line	IS 878: 2008
33.		f) Sub-divisions	IS 878: 2008
34.		g) Capacity at lowest graduation line	IS 878: 2008
35.		Accuracy (Maximum Permissible Errors)	IS 878: 2008
36.		Material	IS 878: 2008
37.		Wall thickness	IS 878: 2008
38.		Stability	IS 878: 2008
39.		Base	IS 878: 2008
40.		Rim and spout	IS 878: 2008
41.		Neck and stopper	IS 878: 2008
42.		Dimensions	IS 878: 2008
43.		Graduation	IS 878: 2008
44.			Figuring

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
45.	Laboratory Glassware (Graduated measuring cylinders)	Marking	IS 878: 2008
46.	Laboratory Glassware (Narrow Necked Boiling Flasks)	Nominal Capacity	IS 1381 ((Part1):2003
47.		Material	IS 1381 (Part1):2003
48.		Stability	IS 1381 (Part1):2003
49.		Neck	IS 1381(Part1):2003
50.		Dimensions	IS 1381 ((Part1):2003
51.		a). Nominal volume	IS 1381 (Part1):2003
52.		b). External diameter of body at widest point	IS 1381 (Part1):2003
53.		c). External diameter of neck	IS 1381(Part1):2003
54.		d). Overall height	IS 1381(Part1):2003
55.		e). Minimum wall thickness	IS 1381(Part1):2003
56.		Neck length	IS 1381(Part1):2003
57.		Dimensions of base	IS 1381(Part1):2003
58.		Wall thickness	IS 1381(Part1):2003
59.		Marking	IS 1381(Part1):2003

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Jaipur- 302013, Rajasthan, India

QAI/CIA/TL/2024/0059

Valid from: 12 June 2024

*Scope Amended (w.e.f.): 30 July 2025

Valid until: 11 June 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
60.	Laboratory Glassware (Single Volume Pipette)	Class of Accuracy	IS 1117: 2018
61.		Nominal Volume	IS 1117: 2018
62.		Accuracy	IS 1117: 2018
63.		Construction	IS 1117: 2018
64.		Material	IS 1117: 2018
65.		Shape	IS 1117: 2018
66.		Bulb	IS 1117: 2018
67.		Dimensions	IS 1117: 2018
68.		Overall length	IS 1117: 2018
69.		Internal diameter at the graduation line	IS 1117: 2018
70.		Length of suction tube– valid only for bulb pattern pipettes	IS 1117: 2018
71.		Length of delivery tube– valid only for bulb pattern pipettes	IS 1117: 2018
72.		External diameter of delivery tube– valid only for bulb pattern pipettes	IS 1117: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
73.	Laboratory Glassware (Single Volume Pipette)	External diameter of bulb– valid only for bulb pattern pipettes	IS 1117: 2018
74.		External diameter of tube– valid only for straight pattern pipettes	IS 1117: 2018
75.		Dimensions	IS 1117: 2018
76.		Distance of graduation line from top of pipette	IS 1117: 2018
77.		Distance from graduation line to top of bulb	IS 1117: 2018
78.		Distance from graduation line to tip of jet– valid only for straight pattern pipettes	IS 1117: 2018
79.		Wall thickness– bulb pattern pipettes	IS 1117: 2018
80.		Top of pipette	IS 1117: 2018
81.		Delivery jet	IS 1117: 2018
82.		Delivery time	IS 1117: 2018
83.		Class A	IS 1117: 2018
84.		Class AS	IS 1117: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
85.		Class B	IS 1117: 2018
86.		Maximum permissible difference between observed and marked delivery times	IS 1117: 2018
87.		Waiting time	IS 1117: 2018
88.	Laboratory Glassware (Single Volume Pipette)	Graduation line(s)	IS 1117: 2018
89.		Setting of the meniscus	IS 1117: 2018
90.		Marking	IS 1117: 2018
91.		Visibility of graduation lines, figures and inscriptions	IS 1117: 2018
92.			Classification and Designation
93.	Laboratory Glassware (Test Tube)	Nominal Size	IS 2618 :2016
94.		Type of wall	IS 2618 :2016
95.		Material	IS 2618 :2016
96.		Construction	IS 2618 :2016
97.		Dimensions	IS 2618 :2016
98.		Length	IS 2618 :2016
99.		External Diameter	IS 2618 :2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
100.	Laboratory Glassware (Burettes)	Wall thickness	IS 2618 :2016
101.		Bottom	IS 2618 :2016
102.		Bottom shape	IS 2618 :2016
103.		Wall thickness of bottom	IS 2618 :2016
104.		Markings	IS 1997:2008
105.		Class of Accuracy	IS 1997:2008
106.		Maximum permissible Nominal Capacity 25ml	IS 1997:2008
107.		Material	IS 1997:2008
108.		Construction	IS 1997:2008
109.		Dimensions	IS 1997:2008
110.		Top of burette	IS 1997:2008
111.		Stopcock and similar devices	IS 1997:2008
112.		Delivery time	IS 1997:2008
113.		Waiting time	IS 1997:2008
114.	Graduations, figuring and patterns	IS 1997:2008	



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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass Wares		
115.	Laboratory Glassware (Burettes)	Marking of graduation lines	IS 1997:2008
116.		Visibility of graduation line numbers and inscription	IS 1997:2008

*Note:

Scope Extension 1:

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

- Mechanical Testing- Wood and Wood Products (S.No. 8 and 9 ; Page no. 8 to 11)
- Mechanical Testing- Building, Infrastructure and Construction Materials (S. No.- 1 to 24; Page no. 12 to 13).
- Mechanical Testing -Glass wares (S. No.- 1 to 116; Page no. 14-22)

