

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Aankan Calibration and Testing Centre LLP

Plot No. B, LS No. 193, Opposite Jay Pump, Dantali, Kalol,
Gandhinagar-382721, 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/2024/0072

Valid from: 14 August 2024

Valid until: 13 August 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
1.	Thermoplastics pipes and fittings	Effect on water - Dialkyl Tin C4 and higher homologues	IS 12235 (Part 4 & 10): 2004
2.		Effect on water - cadmium	IS 12235 (Part 4): 2004
3.		Effect on water - Lead (PB)	IS 12235 (Part 4): 2004
4.		Effect on water - Mercury (HG)	IS 12235 (Part 4): 2004
5.		Resistance to sulphuric acid	IS 12235 (Part 7): 2004
6.		Effect on water - other toxic substances	IS 12235 (Part 10): 2004
7.	Polyvinyl chloride (PVC) and its copolymers	Vinyl chloride monomer content	IS 10151: 2019 (Annex A)
8.	Irrigation equipment- Polyethylene pipes for irrigation laterals	Toluene extract of carbon black	IS 12786: 2024 (Annex A)
9.		Volatile matter of carbon black	IS 12786: 2024 (Cl. 4.1 Annex B)
10.	Plastics	Ash content	IS 13360 (Part 8/sec.8): 2021
11.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Ash content	IS 17425: 2020
12.	Polyethylene moulding materials and polyethylene compounds	Carbon black content (CBC)	IS 2530: 1963
13.		Carbon black dispersion (CBD)	IS 2530: 1963
14.	Methods of test for Polyvinyl chloride resins	K value	IS 4669:1968
15.	Carbon black	Ash content	IS 4984:2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
16.	PE granules	Volatile content in PE granules	IS 4984:2016 (Annex C)
17.	Unplasticized PVC pipes for potable water supplies	Sulphated ash content	IS 4985:2021 (Annex B)
18.	PE granules	Water content of PE granules	IS 4984:2016 (Annex D)
19.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Chlorine content	IS 15778:2007 (Annex B)
20.	Chlorinated polyvinyl chloride (CPVC) compound	Ash content	IS 15225:2002 (Annex C)
21.	Unplasticized Polyvinyl Chloride (UPVC) Injection molded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rainwater System/	Effect on water	IS 12235 (Part 4); IS 12235 (Part 10)
22.		Resistance to Sulphuric Acid	IS 12235 (Part 7)
23.		Sulphated Ash content	IS 14735 Clause Annex B
24.	Chlorinated polyvinyl chloride (CPVC) fittings for potable hot and cold-water distribution	Compound Chlorine Content	IS 15778 Annex B
25.	supplies	Effect on water	IS 12235 (part 4 & 10)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
26.	Injection molded pvc socket fittings with solvent cement joints for water supplies (part 1-8)/ Unplasticized Non-Pressure Polyvinyl Chloride (Pvc-U) Pipes for Use in Underground Drainage and Sewerage Systems/ Fabricated Pvc-U Fittings for Potable Water Supplies (Part 1 To 13)	Effect on Water	IS 12235(part4 & 10):2004
27.	Polypropylene-random copolymer pipes for hot and cold-water supplies	Overall migration	IS 10910; IS 9845
28.		Carbon black content and Dispersion	IS 2530
29.	Oriented unplasticized polyvinyl chloride (pvc-o) Pipes for water supply	VCM Content	IS 10151
30.		K-Value	IS 4669
31.		Effect on water	IS 12235 (Part 4); IS 12235 (Part 10)
32.		Resistance to Dichloromethane	IS 12235 (Part 2)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
33.	Unplasticized polyvinyl chloride (upvc) single-wall corrugated pipes for drainage according to IS 9271: 2004	PVC Compound	IS 10151, IS 9271 Cl.5.1
34.		PVC resin	IS 4669
35.		Effect on water	IS 12235 (Part 4 & 10)
36.	Unplasticized pvc pipes (ducts) and fittings for underground telecommunications cable installation	K value	IS 4669
37.		Ash content	IS 14787 Annex K
38.	Structured-wall plastics piping systems for non-pressure drainage and sewerage - pipes and fittings with smooth external surface, type A according to IS 16098 (part 1): 2013	Resistance to dichloromethane	IS 12235 (Part 11)
39.		Effect on water	IS 12235 (Part 10)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
1.	Synthetic resin adhesives for plywood	Acidity and alkalinity	IS 848:2006 (Annex B)
2.	Prelaminated particle boards	Resistance to stain	IS 12823:2023 (Annex G)
3.	Block board	Spot test	Is 1659:2004 (Annex K)
4.	Wood products (Preservative treated plywood)	Retention of preservative	IS 2753: Part 1: 1991 & IS 2753: Part 2: 2014
5.	Wood products & particle board	Formaldehyde content test	IS 13745:2020
6.	Structural Plywood	Retention of Preservative	IS 2753 (Part 1&2)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
7.	Plywood general purpose/marine plywood/ Plywood for Concrete Shuttering Works/ Wood products prelaminated particle boards of wood and other Lignocellulosic materials (medium density) for general purposes/ Prelaminated particle boards from Wood and other lignocellulosic Material — specification/ Medium density fibre boards for general purpose/ Prelaminated medium density fibre board-Specification	Formaldehyde content	IS 13745

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
1.	Unplasticized PVC pipes for potable water supplies	Colour of pipe	IS 4985:2021 (Cl. 10.1)
2.	Polyethylene pipes for water supply	Colour of pipe	IS 4984:2016 (Cl. 6.2.1)
3.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Colour of pipe	IS 13592:2013 (Cl. 5)
4.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Colour of pipe	IS 14333:2022 (Cl. 6.2)
5.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Colour of pipe	IS 17425:2020 (Cl. 6.2.6)
6.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/tubewell	Colour of pipe	IS 12818:2010 (Cl. 5)
7.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Colour of pipe	IS 15778:2007 (Cl. 9.1)
8.	Unplasticized PVC pipes for potable water supplies	Visual appearance	IS 4985:2021 (Cl. 10.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
9.	Polyethylene pipes for water supply	Visual appearance	IS 4984:2016 (Cl. 7.1)
10.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Visual appearance	IS 13592:2013 (Cl. 8.1)
11.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Visual appearance	IS 14333:2022 (Cl. 7.1)
12.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Visual appearance and workmanship	IS 17425:2020 (Cl. 7.1.1)
13.	Irrigation equipment- polyethylene pipes for irrigation laterals	Visual appearance	IS 12786:2024 (Cl. 6)
14.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Visual appearance	IS 12818:2010 (Cl. 9.1)
15.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Visual appearance	IS 15778:2007 (Cl. 9.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
16.	Unplasticized PVC pipes for potable water supplies	Classification of pipe	IS 4985:2021 (Cl. 5)
17.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Classification of pipe	IS 17425:2020 (Cl. 6)
18.	Irrigation equipment polyethylene pipes for irrigation laterals	Classification of pipe	IS 12786:2024 (Cl. 3)
19.	Irrigation equipment -emitting pipes system	General	IS 13488:2008 (Cl. 6.3)
20.	Unplasticized PVC pipes for potable water supplies	Sealing ring (hardness)	IS 4985:2021 (Cl. 8)
21.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Rubber ring (shore hardness & accelerated storage test)	IS 17425:2020 (Cl. 6.2.6)
22.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Sealing ring (hardness)	IS 12818:2010 (Cl. 8.4)
23.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Sealing ring (dimensions)	IS 12818:2010 (Cl. 8.4.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
24.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Pipe end	IS 15778:2007 (Cl. 8)
25.	Unplasticized PVC pipes for potable water supplies	Pipe end	IS 4985:2021 (Cl. 9)
26.	Unplasticized PVC pipes for potable water supplies	Marking	IS 4985:2021
27.	Polyethylene pipes for water supply	Marking	IS 4984:2016
28.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Marking	IS 12818:2010
29.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Marking	IS 13592:2013
30.	Irrigation equipment- polyethylene pipes for irrigation laterals	Marking	IS 12786:2024
31.	Irrigation equipment -emitting pipes system	Marking	IS 13488:2008
32.	Irrigation equipment - quick coupled polyethylene pipes	Marking	IS 17425:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
	and fittings for sprinkler irrigation systems		
33.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Marking	IS 14333:2022
34.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Marking	IS 15778:2007
35.	Thermoplastics pipes and fittings	Measurement of mean outside diameter	IS 12235: (Part 1):2004
36.	Thermoplastics pipes and fittings	Measurement of outside diameter at any point	IS 12235: (Part 1):2004
37.	Thermoplastics pipes and fittings	Measurement of wall thickness	IS 12235: (Part 1):2004
38.	Thermoplastics pipes and fittings	Measurement of socket length (depth) and socket diameters	IS 12235: (Part 1):2004
39.	Thermoplastics pipes and fittings	Measurement of overall length of pipe	IS 12235: (Part 1):2004
40.	Polyethylene pipes for water supply	Dimension (length)	IS 4984:2016 (Cl. 7.2)
41.	Polyethylene pipes for water supply	Dimension (mean OD)	IS 4984:2016 (Cl. 7.4)
42.	Polyethylene pipes for water supply	Dimension (ovality)	IS 4984:2016 (Cl. 7.4)
43.	Polyethylene pipes for water supply	Dimension (wall thickness of pipe)	IS 4984:2016 (Cl. 7.4)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
44.	Polyethylene pipes for water supply	Identification stripes (width)	IS 4984:2016 (Cl. 6.2.1)
45.	Polyethylene pipes for water supply	Identification stripes (depth)	IS 4984:2016 (Cl. 6.2.1)
46.	Polyethylene pipes for water supply	Identification stripes (colour)	IS 4984:2016 (Cl. 6.2.1)
47.	Polyethylene pipes for water supply	Identification stripes (number)	IS 4984:2016 (Cl. 6.2.1)
48.	Irrigation equipment- polyethylene pipes for irrigation laterals	Dimensions (outside diameter)	IS 12786:2024 (Cl. 5)
49.	Irrigation equipment- polyethylene pipes for irrigation laterals	Dimensions (wall thickness)	IS 12786:2024 (Cl. 5)
50.	Irrigation equipment -emitting pipes system	Dimensions (wall thickness)	IS 13488:2008 (Cl. 8.3)
51.	Irrigation equipment -emitting pipes system	Dimensions (inside diameter)	IS 13488:2008 (Cl. 8.3)
52.	Irrigation equipment -emitting pipes system	Dimension (flow paths in emitting unit)	IS 13488:2008 (Cl. 8.3)
53.	Irrigation equipment -emitting pipes system	Dimension (spacing of emitter units)	IS 13488:2008 (Cl. 8.3)
54.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings	Dimensions (diameter and wall thickness)	IS 13592:2013 (Cl. 7.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
	including ventilation and rainwater system		
55.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Dimensions (length of pipe)	IS 13592:2013 (Cl. 7.2)
56.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Dimensions (socket of pipe)	IS 13592:2013 (Cl. 7.3)
57.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Dimension (OD & ID)	IS 17425:2020 (Cl. 5)
58.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Dimension (wall thickness of pipe)	IS 17425:2020 (Cl. 5)
59.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Out of square	IS 17425:2020 (Cl. 7.1.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
60.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Ovality	IS 17425:2020 (Cl. 5)
61.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Quick coupled fittings	IS 17425:2020 (Cl. 7.3)
62.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Dimensions	IS 17425:2020 (Cl. 5)
63.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Dimensions (outside diameter)	IS 14333:2022 (Cl. 6)
64.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Dimensions (wall thickness)	IS 14333:2022 (Cl. 6)
65.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Dimensions (ovality)	IS 14333:2022 (Cl. 6)
66.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Dimensions (length of straight pipe)	IS 14333:2022 (Cl. 6)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
67.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Dimensions	IS 15778:2007(Cl. 7)
68.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Dimensions (effective length of pipe)	IS 15778:2007 (Cl. 7)
69.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Pipe end	IS 15778:2007 (Cl. 8)
70.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Dimensions (screen pipe)	IS 12818:2010 (Cl. 7.1)
71.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Dimensions (casing pipe)	IS 12818:2010 (Cl. 7.2)
72.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Dimensions (ribs)	IS 12818:2010 (Cl. 7.3)
73.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Dimensions (length of pipe)	IS 12818:2010 (Cl. 7.4)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
74.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Dimensions (slots)	IS 12818:2010 (Cl. 7.5)
75.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Threading of screen and casing pipes	IS 12818:2010 (Cl. 8)
76.	Unplasticized polyvinyl chloride (PVC-U) screen and casing pipes for bore/ tubewell	Test for internal diameter (for casing pipe)	IS 12818:2010
77.	Irrigation equipment- polyethylene pipes for irrigation laterals	Susceptibility to environmental stress cracking (ESCR test)	IS 12786 :2024 (Annex D)
78.	Polyethylene pipes for water supply	Oxidation induction time (OIT)	IS 4984:2016 (Annex B)
79.	UPVC pipes for water supply	Over all migration test	IS 9845:1998 & IS 10146: 1982
80.	Thermoplastics pipes and fittings	Opacity test (standard sample)	IS 12235 (Part 3):2004
81.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Axial shrinkage (only for Type-B)	IS 13592:2013 (Annex B)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
82.	Thermoplastics pipes and fittings	Resistance of dichloromethane at specified temperature	IS 12235 (P-11):2004
83.	Thermoplastics pipes and fittings	Stress relief test	IS 12235 (P-6):2004
84.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings including ventilation and rainwater system	Effect of sunlight	IS 12235 (P-13):2004 (as per IS 13592 Cl. 8.5)
85.	Thermoplastics pipes and fittings	Density	IS 12235 (P-14):2004
86.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Density	IS 17425:2020 (Cl. 4.1.5)
87.	UPVC pipe for water supply	Density	IS 7328:2020
88.	UPVC pipe for water supply	Density	IS 13360 (Part-3/Sec.10): 2021
89.	Thermoplastics pipes and fittings	Reversion test	IS 12235 (Part 5, Sec 1 & 2): 2004
90.	Polyethylene pipes for water supply	Reversion test	IS 4984:2016 (Annex F)
91.	Irrigation equipment- polyethylene pipes for irrigation laterals	Reversion test	IS 12786:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
92.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Reversion test	IS 17425:2020 (Cl. 7.1.3)
93.	Thermoplastics pipes and fittings	Vicat softening temperature	IS 12235 (Part 2):2004
94.	UPVC pipe for water supply	Vicat softening temperature	IS 13360 (Part-6/Sec-1):2018
95.	Unplasticized PVC pipes for potable water supplies	Resistance to external blows at 0°C	IS 4985:2021 (Annex C)
96.	Thermoplastics pipes and fittings	Resistance to external blows at 0°C	IS 12235 (Part 9):2004
97.	Polyethylene pipes for water supply	Tensile strength for butt fusion	IS 4984:2016 (Annex G)
98.	Polyethylene pipes for water supply	Tensile properties (elongation at break & tensile strength)	IS 4984:2016 (Annex H)
99.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Tensile properties (elongation at break & tensile strength)	IS 17425:2020 (Annex-D)
100.	Irrigation equipment- polyethylene pipes for irrigation laterals	Tensile test	IS 12786:2024
101.	Methods of test for polyethylene moulding materials and polyethylene compounds	Tensile properties (elongation at break & tensile strength)	IS 2530:1963

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
102.	Thermoplastics pipes and fittings	Tensile properties (elongation at break & tensile strength)	IS 12235 (Part 13): 2004
103.	Plastics - methods of testing: part 5 mechanical properties section 1 determination of tensile properties - general requirements	Tensile properties (elongation at break & tensile strength)	IS 13360 (Part 5, Sec.1): 2021
104.	Methods of test for polyethylene moulding materials and polyethylene compounds	Melt flow rate (MFI)	IS 2530: 1963
105.	Plastics - methods of testing: part 5 mechanical properties section 1 determination of tensile properties - general requirements	Melt flow rate (MFI)	IS 13360 (Part 4, Sec.1): 2000
106.	Thermoplastics pipes and fittings	Hydraulic characteristics & hydrostatic pressure test	IS 12235 (Part 8, Sec.1 & 4): 2004
107.	Irrigation equipment - emitting pipes system	Hydraulic characteristics & hydrostatic pressure test	IS 13488:2008 (Cl. 8.4)
108.	Irrigation equipment- polyethylene pipes for irrigation laterals	Hydraulic characteristics	IS 12786:2024 (Annex C)
109.	Polyethylene pipes for water supply	Internal pressure creep rupture test	IS 4984:2016 (Annex E)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
110.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Internal pressure creep rupture test	IS 17425:2020 (Annex-A)
111.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Leakage test	IS 17425:2020 (Cl. 7.2.1)
112.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Hydraulic proof test	IS 17425:2020 (Cl. 7.2.2)
113.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Weldability test	IS 17425:2020 (Cl. 7.2.3)
114.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Holding attachments for coupler parts	IS 17425:2020 (Cl. 6.2.5)
115.	Polyethylene pipes for water supply	Slow crack growth rate	IS 4984:2016 (Annex J & E)
116.	Unplasticized polyvinyl chloride (PVC-U) pipes for soil and waste discharge system inside and outside buildings	Water tightness of joint	IS 13592:2013 (Cl. 11)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
	including ventilation and rainwater system		
117.	Irrigation equipment - emitting pipes system	Resistance to pull out of joints between fitting and emitting	IS 13479:1992 (Cl.8.6 of IS 13488:2008)
118.	Irrigation equipment - emitting pipes system	Resistance to tension at elevated temperature	IS 13488:2008 (Cl.8.5)
119.	Irrigation equipment - emitting pipes system	Emitting unit exponent	IS 13488:2008 (Cl.8.8)
120.	Irrigation equipment - emitting pipes system	Uniformity of emission rate	IS 13488:2008 (Cl. 8.1)
121.	Irrigation equipment - emitting pipes system	Emission rate as a function of inlet pressure	IS 13488:2008 (Cl. 8.2)
122.	Irrigation equipment - emitting pipes system	Spacing of emitting units	IS 13488:2008 (Cl. 8.3.4)
123.	Irrigation equipment - emitting pipes system	Flow paths in emitting unit	IS 13488:2008 (Cl. 8.3.3)
124.	Irrigation equipment - emitting pipes system	Fittings	IS 13488:2008 (Cl. 6.2)
125.	Irrigation equipment - emitting pipes system	Coefficient of variation	IS 13488:2008 (Cl. 8.1)
126.	Irrigation equipment - quick coupled polyethylene pipes and fittings for sprinkler irrigation systems	Fusion compatibility	IS 17425:2020 (Cl. 7.1.5)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
127.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution	Verification of the malfunction temperature, TMAL	IS 15778:2007 (Annex C)
128.	Thermoplastics pipes and fittings	Flattening test	IS 12235 (Part 19):2004
129.	Unplasticized Polyvinyl Chloride (UPVC) Injection Molding Fittings for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rainwater System	Dimensions	IS 14735 Clause 7
130.		Sealing Rings	IS 14735 Clause 8
131.		Workmanship	IS 14735 Clause 10
132.		Access Opening	IS 14735 Clause 11.3
133.		Visual Appearance	IS 14735 Clause 12.1
134.		Stress Relief Test	IS 12235 (Part 6)
135.		Vicat softening Temperature	IS 6307
136.		Impact test (Drop test)	IS 14735 Clause Annex C
137.		Water Tightness of Joint	IS 14735 Clause Annex D
138.		Compound	IS 15225
139.		Density	IS 13360 (Part 3/Sec 10 & 11)
140.		Verification of the Malfunction Temperature	IS 15778 Annex C
141.		Dimension	IS 12235 (part 1)
142.		Visual appearance	IS 17546 Clause 8.1
143.	Opacity	IS 12235 (part 3)	
144.	Stress relief test	IS 12235 (part 6)	
145.	Vicat Softening Temperature	IS 12235 (part 2)	
146.	Density	IS 12235 (part 14)	
147.	hydrostatic pressure testing	IS 12235 (Part 8/Sec 1)	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
148.		Thermal stability by hydrostatic pressure testing (95°C for 8760 h)	IS 12235 (Part 8/Sec 1)
149.	Injection molded pvc socket fittings with solvent cement joints for water supplies	Size of Fitting	IS 4985
150.		Minimum Thickness	IS 7834 (Part 1) Clause 4
151.		Socket length	IS 7834 (Part 1) Clause 5
152.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
153.		Stress Relief Test	IS 12235(part 6):2004
154.		Opacity	IS 12235(part 3):2004
155.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
156.		Injection molded pvc socket fittings with solvent cement joints for water supplies Part-2; Specific Requirements for 45° Elbows	Size of Fitting
157.	Minimum Thickness		IS 7834 (Part 1) Clause 4
158.	Socket length		IS 7834 (Part 1) Clause 5
159.	Diameter at Mid-Point of socket Length		IS 7834 (Part 1) Clause 5
160.	Stress Relief Test		IS 12235(part6):2004
161.	Opacity		IS 12235(part3):2004
162.	Short-term Hydraulic Test		12235(part 8, sec1 & sec4):2004
163.	Injection molded pvc socket fittings with solvent cement joints for water supplies Part-3; Specific Requirements for 90° Elbows		Size of Fitting
164.		Minimum Thickness	IS 7834 (Part 1) Clause 4
165.		Socket length	IS 7834 (Part 1) Clause 5
166.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
167.		Stress Relief Test	IS 12235(part6):2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
168.		Opacity	IS 12235(part3):2004
169.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
170.		Size of Fitting	IS 4985
171.		Minimum Thickness	IS 7834 (Part 1) Clause 4
172.	Injection molded pvc socket fittings with solvent cement joints for water supplies Part-4; Specific Requirements for 90° Tees	Socket length	IS 7834 (Part 1) Clause 5
173.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
174.		Stress Relief Test	IS 12235(part6):2004
175.		Opacity	IS 12235(part3):2004
176.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
177.			Size of Fitting
178.		Minimum Thickness	IS 7834 (Part 1) Clause 4
179.	Injection molded pvc socket fittings with solvent cement joints for water supplies Part-5; Specific Requirements for 45° Tees	Socket length	IS 7834 (Part 1) Clause 5
180.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
181.		Stress Relief Test	IS 12235(part6):2004
182.		Opacity	IS 12235(part3):2004
183.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
184.			Size of Fitting
185.	Injection molded pvc socket fittings with solvent cement joints for water supplies Part-6; Specific Requirements for Socket	Minimum Thickness	IS 7834 (Part 1) Clause 4
186.		Socket length	IS 7834 (Part 1) Clause 5
187.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
188.		Stress Relief Test	IS 12235(part6):2004
189.		Opacity	IS 12235(part3):2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
190.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
191.	Injection molded pvc fittings with solvent cement joints for water supplies Part-7; Specific Requirements for Unions	Size of Fitting	IS 7834 (Part 1) Clause 3
192.		Minimum Thickness	IS 7834 (Part 1) Clause 4
193.		Socket length	IS 7834 (Part 1) Clause 5
194.		Diameter at Mid-Point of socket Length	IS 7834 (Part 1) Clause 5
195.		Stress Relief Test	IS 12235(part6):2004
196.		Opacity	IS 12235(part3):2004
197.		Short-term Hydraulic Test	12235(part 8, sec1 & sec4):2004
198.		Injection molded pvc socket fittings with solvent cement joints for water supplies Part-8; Specific Requirements for Caps	Size of Fitting
199.	Minimum Thickness		IS 7834 (Part 1) Clause 4
200.	Socket length		IS 7834 (Part 1) Clause 5
201.	Diameter at Mid-Point of socket Length		IS 7834 (Part 1) Clause 5
202.	Diameter of the socket of Cap		IS 7834 (Part 8) Clause 2.2.2
203.	Stress Relief Test		IS 12235(part6):2004
204.	Opacity		IS 12235(part3):2004
205.	Short-term Hydraulic Test		12235(part 8, sec1 & sec4):2004
206.	Polypropylene-random copolymer pipes for hot and cold-water supplies	Density	13360 (Part3/Sec1)
207.		MFR	IS 13360 (Part4/Sec 1)
208.		DIMENSION	IS 12235 (Part 1 to 13), IS 4984
209.		Acceptance test At 20°C for 1 h	IS 12235 (Part 8/Sec1)
210.		Acceptance test At 95°C for 22 h	IS 12235 (Part 8/Sec1)
211.		Type Test At 95°C for 165 h	IS 12235 (Part 8/Sec1)
212.		Type test At 95°C for 1000 h	IS 12235 (Part 8/Sec1)

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Plastic and Plastic Products			
213.		Fusion compatibility	IS 12235 (Part 8/Sec1)	
214.		Reversion test	IS 12235 (Part-5/Sec 1)	
215.		Impact Strength	IS 15801 :2008 Annex B; IS 13360 (Part5/Sec 5)	
216.		Density	IS 12235 (Part-14)	
217.		Melt flow rate	IS 13360(Part 4/Sec 1)	
218.		Thermal stability by hydrostatic pressure testing	IS 12235 (Part 8/Sec 1)	
219.		Opacity	IS 12235 (Part-3)	
220.		Unplasticized non-pressure polyvinyl chloride (pvc-u) pipes for use in underground drainage and sewerage systems	Mean Outer Diameter	IS 12235 (Part 1)
221.			Wall Thickness	IS 4985
222.	Dimensions of integral sockets and spigot ends and wall thickness of sockets		IS 15328 Clause 6.1.4	
223.	Visual Appearance		IS 15328 Clause 7.1	
224.	Vicat Softening Temperature		IS 15328 Clause Annex A	
225.	Longitudinal Reversion		IS 12235 (Part 5/Sec 1)	
226.	Resistance to external blows at 0°C		IS 15328 Clause Annex B	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
227.		Elastomeric Sealing Rings	IS 5382
228.		Solvent Cement	IS 14182
229.		Internal hydrostatic pressure test for elastomeric sealing ring	IS 15328 Annex D
230.		Internal negative hydrostatic pressure test (internal vacuum) for elastomeric sealing ring joints	IS 15328 Clause Annex E
231.		Internal hydrostatic pressure test for solvent cemented Joints	IS 15328 Clause 10.2.1
232.		Internal negative hydrostatic pressure test (internal vacuum) for solvent cemented joints	IS 15328 Clause 10.2.2
233.	Oriented unplasticized polyvinyl chloride (pvc-o)	Density	IS 12235 (Part 14)
234.	Pipes for water supply according to IS 16647:2017	Visual Appearance	IS 16647 Clause 7.1

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
235.		Opacity	IS 12235 (Part 3)
236.		Diameter	IS 12235 (Part 1)
237.		Wall thickness	IS 12235 (Part 1)
238.		Length	IS 16647 Clause 8.1.3
239.		Dimensions of integral socket	IS 16647 Clause 8.2
240.		Pipe ends	IS 16647 Clause 8.3
241.		Resistance to hydrostatic	IS 12235 (part 8/ Sec 1)
242.		Pipes with integral socket (for	IS 12235 (Part 8)
243.		Resistance to external blows at 0°C	IS 12235 (Part 9)
244.		Ring Stiffness	IS 12235 (Part 18)
245.		Vicat softening temperature	IS 12235 (Part 2)
246.		Resistance to dichloromethane at a specific temperature	IS 12235 (part 11)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
247.		Uni-axial tensile test	IS 12235 (Part 13)
248.		Short term pressure test for leak tightness of assemblies	IS 12235 (Part 8)
249.		Short term negative pressure test for leak tightness of assemblies	IS 12235 (Part 8)
250.		Long term pressure test for leak tightness	IS 12235 (Part 8)
251.		Size of fitting	IS 4985
252.		Socket Length	IS 10124 Clause 5
253.	Fabricated pvc-u fittings for potable water supplies according to IS 10124 (part 1 to 13): 2009	Diameter at Mid-Point of socket length	IS 10124 Clause 5
254.		Dimensions	IS 10124 Clause 5
255.		Opacity	IS 12235 (Part 3)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
256.		Short term hydraulic test	IS 10124 Annex A
257.	Fabricated pvc-u fittings for potable water supplies — specification Part 2 specific requirements for sockets	Size of fitting	IS 4985
258.		Socket Length	IS 10124 Clause 5
259.		Diameter at Mid-Point of socket length	IS 10124 Clause 5
260.		Dimensions	IS 10124 Clause 5
261.		Opacity	IS 12235 (Part 3)
262.		Short term hydraulic test	IS 10124 Annex A
263.		Dimensions for sockets for elastomeric sealing ring joints	IS 10124 Clause 3.2.2
264.		Pvc water-stops at transverse contraction joints for use in masonry and concrete dams- IS 15058: 2002	Tensile Strength
265.	Elongation		IS 13360 (Pt.5/Sec 1); IS 15058 Clause 3.2

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
266.		Hardness (Shore A)	IS 13360 (Pt.5/Sec 1); IS 15058 Clause 3.2
267.	Fabricated polyethylene fittings for water supply according to IS 8360: 2022	Hydraulic characteristics (at 27 °C for 1h)	IS 4984 Annex-E
268.		Hydraulic characteristics (at 27 °C for 100h)	IS 4984 Annex-E
269.		Hydraulic characteristics (at 80° C for 165h)	IS 4984 Annex-E
270.		Tensile Strength for Butt Fusion	IS 4984 Annex-G
271.		Density	IS 13360 (Part 3/ Sec. 1)
272.	Unplasticized PVC Pipes (Ducts) and Fittings for Underground Telecommunications Cable Installation	Diameter	IS 12235(Part 1)
273.		Wall Thickness	IS 14787 Clause 7.1
274.		Socket Dimensions	IS 14787 Clause 7.2
275.		Length of Pipe	IS 14787 Clause 7.4

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Plastic and Plastic Products			
276.		Tensile Strength and Elongation	IS 8543 (Part 4/Sec 1)	
277.		Reversion	IS 12235(Part 5)	
278.		Stress Relief	IS 12235 (Part 6)	
279.		Vicat Softening Temperature	IS 6307	
280.		Density	IS 13360 (Part 3/Sec 1)	
281.		Ash content	IS 14787 ANNEK K	
282.		Hydrostatic test for joint	IS 14787 Annex M	
283.		Base Density	IS 7328	
284.		Structured-wall plastics piping systems for non- pressure drainage and sewerage — pipes and fittings with non-smooth external surface, type B	Melt flow rate	IS 2530
285.			Thermal stability (Oxidation induction test, OIT)	IS 4984
286.	Resistance to internal pressure, 165 h		IS 12235 (Part 8/ Sec1)	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
287.		Resistance to internal pressure, 1000 h	IS 12235 (Part 8/ Sec1)
288.		Dimensions of Pipes	IS 16098 (Part 2) Clause 6.3
289.		Color of finished pipes	IS 16098 (Part 2) Clause 7.1.1
290.		Resistance to Heating (PE pipes, PP pipes))	IS 12235 (Part 6)
291.		Ring stiffness	Is 16098 (part 2) annex c
292.		Impact strength	Is 12235 (part 9)
293.		Tightness of Elastomeric Sealing Rings	IS 12235 (Part 8/ Sec2 & Sec3)
294.		Water tightness	Is 16098 (part 2) annex f
295.	Structured wall plastics piping systems for non- pressure drainage and sewerage — pipes and fittings with smooth external surface, type A	Material for pipe and fittings manufacturing – Resistance to internal hydrostatic pressure at 60 °C	IS 16098 (Part 1) Clause 5.2, Table 1

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
296.		Mean outside diameter	IS 12235 (Part 1)
297.		Wall thickness	IS 16098 (Part 1) Clause 6.3.2, Table 3
298.		Length of pipe	IS 16098 (Part 1) Clause 6.3.3
299.		Dimensions of integral socket and spigot ends	IS 16098 (Part 1) Clause 6.3.4
300.		Wall thickness of socket	IS 16098 (Part 1) Clause 6.3.4.1
301.		Wall thickness of fabricated fittings	IS 16098 (Part 1) Clause 6.3.4.2, Table 4 and 5
302.		Vicat softening temperature for pipes	IS 12235 (Part 2)
303.		Resistance To Dichloromethane	IS 12235 (PART 11)
304.		Longitudinal reversion	IS 12235 (Part 5)
305.		Vicat softening temperature for Fittings	IS 12235 (Part 2)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
306.		Effect of Heating (Stress relief	IS 12235 (Part 6)
307.		Resistance to external blows at	IS 12235 (Part 9)
308.		Elastomeric sealing rings	IS 16098 (Part 1) Clause 11.1
309.		Solvent cement	IS 16098 (Part 1) Clause 11.2
310.		Tightness of elastomeric sealing	IS 12235 (Part 8/Sec 2)
311.		Tightness of elastomeric sealing	IS 12235 (Part 8/Sec 3)
312.		Tightness of solvent cemented	IS 16098 (Part 1) Clause 12.2.1
313.		Tightness of solvent cemented	IS 16098 (Part 1) Clause 12.2.2
314.	Unplasticized polyvinyl chloride (upvc) single-wall corrugated pipes for drainage according to IS 9271: 2004	Density	IS 9271 CLAUSE 8.2, IS 13360 (PART 3 /SEC 1)
315.		Impact Strength	IS 9271 Annex B CL 8.4
316.	CPVC compounds	Charpy impact strength	IS 13360: (Part 5/Sec 5): 2017
317.	CPVC compounds	Form	IS 15225:2002 (Cl. 8.1.3)
318.	CPVC compounds	Appearance	IS 15225:2002 (Cl. 8.1.5)
319.	CPVC resin	Density	IS 13360 (Part 3/ Sec 1):1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
1.	Timber	Timber	IS 303:2024, IS 710:2024, IS 4990:2024, IS 2202 (Part-1):2023, IS 1659:2004
2.	Face veneers	Face veneers	IS 303:2024, IS 710:2024, IS 2202 (Part-1):2023, IS 4990:2024, IS 1659:2004, IS 1328:1996
3.	Core veneers	Core veneers	IS 303:2024, IS 710:2024, IS 2202 (Part-1):2023, IS 4990:2024, IS 1659:2004, IS 1328:1996
4.	Cross bands	Cross bands	IS 303:2024, IS 710:2024, IS 2202 (Part-1):2023, IS 4990:2024, IS 1659:2004, IS 1328:1996
5.	Wooden flush door shutter	Stail and rail	IS 2202 (Part-1):2023
6.	Plywood	Classification by appearance	IS 303:2024
7.	Plywood	Quality requirements of surface and number of defects	IS 303:2024
8.	Plywood	Permissible defects	IS 303:2024
9.	Block boards	Defects	IS 1659:2004
10.	Marine plywood	Workmanship and finish	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		
11.	Veneered decorative plywood	Manufacture (decorative veneers)	IS 1328:1996
12.	Veneered decorative plywood	Requirements (visually defects)	IS 1328:1996
13.	Veneered decorative plywood	Finish	IS 1328:1996
14.	Prelaminated particle boards	Finish	IS 12823:2015
15.	Plywood	Dimensions (length/height & width)	IS 303:2024
16.	Wooden flush door shutter	Dimensions (length/height & width)	IS 2202 (Part 1):2023
17.	Wooden flush door shutter	Dimensions (length/height & width)	IS 4020 (Part 2):1998
18.	Block boards	Dimensions (length/height & width)	IS 1659:2004
19.	Marine plywood	Dimensions (length/height & width)	IS 710:2024
20.	Plywood for concrete shuttering works	Dimensions (length/height & width)	IS 4990:2024
21.	Veneered decorative plywood	Dimensions (length/height & width)	IS 1328:1996
22.	Prelaminated particle boards	Dimensions (length/height & width)	IS 12823:2015
23.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Dimensions (length/height & width)	IS 3087:2005
24.	Plywood	Dimensions (thickness)	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		
25.	Wooden flush door shutter	Dimensions (thickness)	IS 2202 (Part 1):2023
26.	Wooden flush door shutter	Dimensions (thickness)	IS 4020 (Part 2):1998
27.	Block boards	Dimensions (thickness)	IS 1659:2004
28.	Marine plywood	Dimensions (thickness)	IS 710:2024
29.	Plywood for concrete shuttering works	Dimensions (thickness)	IS 4990:2024
30.	Veneered decorative plywood	Dimensions (thickness)	IS 1328:1996
31.	Prelaminated particle boards	Dimensions (thickness)	IS 12823:2015
32.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Dimensions (thickness)	IS 3087:2005
33.	Plywood	Dimensions (straightness & squareness)	IS 303:2024
34.	Wooden flush door shutter	Dimensions (straightness & squareness)	IS 2202 (Part 1):2023
35.	Wooden flush door shutter	Dimensions (straightness & squareness)	IS 4020 (Part 2):1998
36.	Block boards	Dimensions (straightness & squareness)	IS 1659:2004
37.	Marine plywood	Dimensions (straightness & squareness)	IS 710:2024
38.	Plywood for concrete shuttering works	Dimensions (straightness & squareness)	IS 4990:2024
39.	Veneered decorative plywood	Dimensions (straightness & squareness)	IS 1328:1996

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
40.	Prelaminated particle boards	Dimensions (straightness & squareness)	IS 12823:2015
41.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Dimensions (straightness & squareness)	IS 3087:2005
42.	Methods of test for plywood	Static bending strength (MOE & MOR test) / wet bending strength	IS 1734 (Part 11):1983
43.	Block boards	Static bending strength (MOE & MOR test) / wet bending strength	IS 1659:2004 (Annex J)
44.	Methods of test for wood particle boards and boards from other lignocellulosic materials	Static bending strength (MOE & MOR test) / wet bending strength	IS 2380 (Part-4):1977
45.	Marine plywood	Tensile strength	IS 1734 (Part-9):1983
46.	Prelaminated particle boards	Tensile strength perpendicular to surface	IS 2380 (Part-5):1977
47.	Particle boards of wood and other	Tensile strength perpendicular to surface after aging	IS 2380 (Part-5):1977
48.	Plywood for general purposes	Mycological test	IS 1734 (Part-7):1983
49.	Block board	Mycological test	IS 1659:2004 (Annex-H)
50.	Methods of test for plywood	Water resistance test	IS 1734 (Part-6):1983
51.	Block board	Water resistance test	IS 1659:2004 (Annex-F)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
52.	Seasoning of timber - code of practice	Moisture content	IS 1141:1993
53.	Methods of test for plywood	Moisture content	IS 1734 (Part-1):1983
54.	Particle boards of wood and other	Moisture content	IS 2380 (Part-3):1977
55.	Timber	Moisture content	IS 1708 (Part-1):1986
56.	Wooden flush door shutter	Workmanship and finish	IS 2202 (Part-1):2023
57.	Wooden flush door shutter	General flatness test	IS 4020 (Part-3):1998
58.	Wooden flush door shutter	Local planeness test	IS 4020 (Part-4): 1998
59.	Wooden flush door shutter	Impact indentation test	IS 4020 (Part-5):1998
60.	Wooden flush door shutter	Flexure test	IS 4020 (Part-6):1998
61.	Wooden flush door shutter	Edge loading test	IS 4020 (Part-7):1998
62.	Wooden flush door shutter	Shock resistance test	IS 4020 (Part-8):1998
63.	Wooden flush door shutter	Buckling resistance test	IS 4020 (Part-9):1998
64.	Wooden flush door shutter	Slamming test	IS 4020 (Part-10):1998
65.	Wooden flush door shutter	Misuse test	IS 4020 (Part-11):1998
66.	Wooden flush door shutter	Varying humidity test	IS 4020 (Part-12):1998
67.	Wooden flush door shutter	End immersion test	IS 4020 (Part-13):1998
68.	Wooden flush door shutter	Knife test	IS 4020 (Part-14):1998
69.	Wooden flush door shutter	Glue adhesion test	IS 4020 (Part-15):1998
70.	Wooden flush door shutter	Screw withdrawal test	IS 4020 (Part-16):1998
71.	Wooden flush door shutter	Screw withdrawal test	IS 2380 (Part 14):1977
72.	Block board	Face veneers for decorative type of block board	IS 1659:2004 (Annex C)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
73.	Block board	Dimensional changes caused by humidity	IS 1659:2004 (Annex E)
74.	Block board	Adhesion of plies	IS 1659:2004 (Annex G)
75.	Marine plywood	Glue adhesion in dry state (glue shear strength)	IS 1734 (Part-4):1983
76.	Marine plywood	Glue adhesion in dry state (adhesion of plies)	IS 1734 (Part-5):1983
77.	Plywood for concrete shuttering works	Plywood with plastic coating	IS 4990:2024
78.	Synthetic resin adhesives for plywood	Cyclic test	IS 848:2006 (Annex A)
79.	Prelaminated particle boards	Test for density	IS 2380 (Part-3):1977
80.	Prelaminated particle boards	Water absorption	IS 2380 (Part-16):1977
81.	Prelaminated particle boards	Test for swelling in water	IS 2380 (Part-17):1977
82.	Prelaminated particle boards	Swelling due to surface absorption	IS 2380 (Part-17):1977
83.	Prelaminated particle boards	Abrasion resistance	IS 12823:2015 (Annex C)
84.	Prelaminated particle boards	Resistance to steam	IS 12823:2015 (Annex D)
85.	Prelaminated particle boards	Crack resistance	IS 12823:2015 (Annex E)
86.	Prelaminated particle boards	Resistance to cigarette burn	IS 12823:2015 (Annex F)
87.	Particle boards of wood and other lignocellulosic materials	Materials	IS 3087:2005
88.	Particle boards of wood and other lignocellulosic materials	Finish	IS 3087:2005
89.	Particle boards of wood and other lignocellulosic materials	Workability test	IS 3087:2005

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
90.	Wooden flush door shutter	Marking	IS 2202 (Part 1):2023
91.	Plywood for general purposes	Marking	IS 303:2024
92.	Block board	Marking	IS 1659:2004
93.	Marine plywood	Marking	IS 710:2024
94.	Plywood for concrete shuttering works	Marking	IS 4990:2024
95.	Prelaminated particle boards	Marking	IS 12823:2015
96.	Particle boards of wood and other lignocellulosic materials	Marking	IS 3087:2005
97.	Veneered decorative plywood	Marking	IS 1328:1996
98.	Structural Plywood	Dimensions	IS10701:2012, IS 4020 (Part2)
99.		Squareness & Edge Straightness	IS 10701: 2012 Annex C, IS 4020 (Part2)
100.		Moisture Content	IS 1734 (Part 1)
101.		Glue Shear Strength (Dry)	IS 1734 (Part 4)
102.		Resistance to water	IS 1734 (Part 4,6)
103.		Resistance to Micro-organism	IS 1734 (Part 7)
104.		Tensile Strength	IS 1734 (Part 9)
105.		MOE & MOR	IS 1734 (PART11):1983
106.		Wet Bending Strength	IS 1734 (Part 11)
107.		Medium Density Fibre Boards (MDF) for General Purpose/ Veneered Particle Boards	Internal Bond Strength
108.	Moisture Resistance		IS 2380 (Part 5)
109.	Medium Density Fibre Boards (MDF) for General Purpose/	Dimensions	IS 2380 (Part 2)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
	Cement Bonded Particle Boards		
110.	Medium Density Fibre Boards (MDF) for General Purpose/	Density	IS 2380 (Part 3)
111.		Moisture Content	IS 2380 (Part 3)
112.	Cement Bonded Particle Boards/ Prelaminated Cement Bonded Particle Boards	MOE & MOR	IS 2380 (Part 4)
113.		Screw Withdrawal Strength	IS 2380 (Part 14)
114.		24 h thickness swelling	IS 2380 (Part 17)
115.	Cement Bonded Particle Boards/ Prelaminated Cement Bonded Particle Boards	water Absorption Test	IS 2380 (Part 16)
116.		Tensile strength perpendicular to surface	IS 2380 (Part 5)
117.	Prelaminated Cement Bonded Particle Boards	Dimensions	IS 15786 :2008, IS 4020 PART 2
118.		Squareness and Edge Straightness	IS 15786 :2008, IS 4020 PART 2
119.		Resistance to Abrasion	IS 15786 :2008 Annex B
120.		Resistance to Steam	IS 15786 :2008 Annex C
121.		Resistance to Crack	IS 15786 :2008 Annex D
122.		Resistance to Cigarette Burn	IS 15786 :2008 Annex E
123.		Laminated Veneer Lumber-specification	Dimensions
124.	Moisture Content		IS 1734(Part 1)
125.	Adhesion of Plies		IS 1734(Part 5)
126.	MOE & MOR		IS 1708 (part 6)
127.	Compressive Strength parallel to Grain		IS 1708 (part 8)
128.	Tensile strength		IS 1708 (part 15)
129.	Screw holding power	IS 1708 (part 12)	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
Wood and Wood Products				
130.	Veneered Particle Boards	Swelling in water	IS 2380 (part 17)	
131.		Dimensions and Tolerances	IS 2380 (PART 2)	
132.		Density	IS 2380 (PART 3)	
133.		Moisture Content	IS 2380 (PART 3)	
134.		Water Absorption	IS 2380 (PART 16)	
135.		Swelling due to general Absorption	IS 2380 (PART 17)	
136.		Swelling due to surface Absorption	IS 2380 (PART 17)	
137.		Screw withdrawal strength	IS 2380 (PART 14)	
138.		Adhesion of Plies	IS 3097 Clause 9.1	
139.		MOE & MOR	IS 2380 (PART 4)	
140.		Determination of Deflection under sustained load	IS 2380 (PART 13)	
141.		Oriented Strand Boards - specification	Modulus of Rupture	IS 2380 (Part 4)
142.		Oriented Strand Boards - specification/ Prelaminated Medium Density Fibre Boards of wood and other lignocellulosic materials - specification	Dimensions	IS 2380 (Part 2)
143.			Squareness and Edge Straightness	IS 2380 (Part 2)
144.	Density		IS 2380 (Part 3)	
145.	Moisture Content		IS 2380 (Part 3)	
146.	MOE & MOR		IS 2380 (Part 4)	
147.	Internal Bond Strength		IS 2380 (Part 5)	
148.	24 h thickness swelling (due to general absorption)		IS 2380 (Part 17)	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
149.		Screw Withdrawal Strength	IS 2380 (Part 14)
150.		Moisture Resistance	IS 2380 (Part 5)
151.	Prelaminated Medium Density Fibre Boards of wood and other lignocellulosic materials -specification	Resistance to Abrasion	IS 14587 :2025 Annex B
152.		Resistance to Steam	IS 14587 :2025 Annex C
153.		Resistance to Crack	IS 14587 :2025 Annex D
154.		Resistance to Cigarette Burn	IS 14587 :2025 Annex E
155.		Dimensions and Squareness test	IS 4020 (Part 2)
156.	Wooden Flush Door Shutters (Solid Core Type)- specification/ Wooden flush door shutters (cellular, hollow and tubular core type) Part 1 Plywood Face Panels / Part 2 Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels/ Moulded Raised High Density Fibre Panel Doors	General flatness test	IS 4020 (Part 3)
157.		Local planeness test	IS 4020 (Part 4)
158.		Slamming test	IS 4020 (Part 10)
159.		Impact indentation test	IS 4020 (Part 5)
160.		Screw withdrawal resistance test	IS 4020 (Part 16)
161.		Flexure test	IS 4020 (Part 6)
162.		Edge loading test	IS 4020 (Part 7)
163.		Shock resistance test	IS 4020 (Part 8)
164.		Buckling test	IS 4020 (Part 9)
165.		Misuse test	IS 4020 (Part 11)
166.		Varying humidity test	IS 4020 (Part 12)
167.		End immersion test	IS 4020 (Part 13)
168.		Glue adhesion test	IS 4020 (Part 15)
169.	Wooden Flush Door Shutters (Solid Core Type)- specification/ Wooden flush door shutters (cellular, hollow	Swelling in thickness of the particle board, MDF and HDF board	IS 4020 (Part 17)

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Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aankan Calibration and Testing Centre LLP

Plot No. B, LS No. 193, Opposite Jay Pump, Dantali, Kalol,
Gandhinagar-382721, Gujarat, India

QAI/CIA/TL/2024/0072

Valid from: 14 August 2024

*Scope Amended w.e.f.: 09 April 2026

Valid until: 13 August 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
	and tubular core type) Part 1 Plywood Face Panels / Part 2 Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels		

Note:

Scope Extension 1:

Following scope of accreditation is extended w.e.f. **28 September 2024**

- **Chemical-** Wood & Wood Products- Sl. No. 5-Formaldehyde Content Test

Scope Amendment 1:

Following scope of accreditation is amended w.e.f. **09 April 2026**

- **Chemical-** Plastic & Plastic Products(Page no-2 to 4; Sr. No-21-39),Wood & Wood Products- Page no-5 to 6; Sr. No-6 to 7) added with similar clauses.
- **Mechanical-** Plastic & Plastic Products(Page no-22 to 35; Sr. No-129-319),Wood & Wood Products- Page no-42 to 45; Sr. No-98 to 169) added with similar clauses

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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