

Quality And Accreditation Institute

Centre for International Accreditation



Certificate of Accreditation

Shri Bajrang Testing Labs

*B-53 (Near Oppo Mobile Factory), Six Percent Abadi Area, Kasna,
Greater Noida - 201306, Uttar Pradesh, 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 with the above standard
& any other requirements specified by QAI.*



QAI/CIA/TL/2026/0191

Valid from: 08 September 2026

Valid until: 07 September 2028

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
	Building Materials		
1.	Cement (OPC/PPC/PSC/ White/Composite/Clinker)	Silicon Dioxide (Silica)	IS 4032:1985 (RA:2019)
2.		Aluminium Oxide (Alumina)	IS 4032:1985 (RA:2019)
3.		Ferric Oxide	IS 4032:1985 (RA:2019)
4.		Sulphur Trioxide	IS 4032:1985 (RA:2019)
5.		Calcium Oxide	IS 4032:1985 (RA:2019)
6.		Magnesium Oxide	IS 4032:1985 (RA:2019)
7.		Insoluble residue	IS 4032:1985 (RA:2019)
8.		Loss on ignition	IS 4032:1985 (RA:2019)
9.		Chloride	IS 4032:1985 (RA:2019)
10.		Sodium Oxide	IS 4032:1985 (RA:2019)
11.		Potassium Oxide	IS 4032:1985 (RA:2019)
12.	Fly Ash	Silicon Dioxide	IS 1727:1967 (RA:2018)
13.		Aluminium Oxide	IS 1727:1967 (RA:2018)
14.		Ferric Oxide	IS 1727:1967 (RA:2018)
15.		Sulphur Trioxide	IS 1727:1967 (RA:2018)
16.		Calcium Oxide	IS 1727:1967 (RA:2018)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
17.	Fly Ash	Magnesium Oxide	IS 1727:1967 (RA:2018)
18.		Insoluble residue	IS 1727:1967 (RA:2018)
19.		Loss on ignition	IS 1727:1967 (RA:2018)
20.		Available Alkali as Na ₂ O Equivalent	IS 3812(Part-1):2013 Annex-C (RA:2022)
21.	Construction Material (Concrete Admixture)	Dry Material Content	IS 9103:1999 (RA:2018)
22.		Ash Content	IS 9103:1999 (RA:2018)
23.		pH	IS 9103:1999 (RA:2018)
24.		Relative Density	IS 9103:1999 (RA:2018)
25.		Chlorides	IS 6925:1973 (RA:1999)
26.	Fly Ash Brick	Available Lime (CaO + MgO equivalent)	IS 6932(Part-1):2025
27.		Magnesia (MgO)	IS 6932(Part-1):2025
28.		Silica + alumina + Ferric oxide)	IS 6932(Part-1):2025
29.		Unhydrated MgO	IS 6932(Part-1):2025
30.		Insoluble residue	IS 6932(Part-1):2025
31.	Harden Concrete	Chloride content	BS 1881 (Part 124) (RA 2015)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
32.	Harden Concrete	Potassium oxide	BS 1881 (part 124) (RA 2015)
33.		Sodium oxide	BS 1881 (part 124) (RA 2015)
34.		Sulphate	BS 1881 (part 124) (RA 2015)
35.	Aggregates	Chloride	IS 14959 (Part 2):2001 (RA:2021)
36.		Dissolved Silica	IS 2386 (Part 7):1963 (RA:2021)
37.		Reduction in alkalinity	IS 2386 (Part 7):1963 (RA:2021)
38.		Sulphate	IS 4032:1985 (RA:2019)
39.		Water Soluble Chloride	IS 14959 (Part 2):2001 (RA:2021)
40.	Bonded Mineral Wool	Alkalinity (pH)	IS 3144:2024
41.		Bulk Density	IS 3144:2024
42.		Chloride content	IS 3144:2024
43.		Organic matter	IS 3144:2024
44.		Moisture Content	IS 3144:2024
45.	Hydrated Lime	Acid insoluble matter as SiO ₂	IS 1514(Cl.-10.2):1990 (RA:2021)
46.		Alumina Oxide	IS 1514(Cl.-11.2.2):1990 (RA:2021)
47.		Available lime as CaO	IS 1514(Cl.-9.2.2):1990 (RA:2021)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
48.	Hydrated Lime	Calcium hydroxide (Ca(OH) ₂)	IS 1540 (Part 2): 1990 (RA:2021)
49.		Carbonate	IS 1514(CI.-7.3):1990 (RA:2021)
50.		Free Moisture Content	IS 1514(CI.-18.1):1990 (RA:2021)
51.		Iron oxide	IS 1514(CI.-11.2.1):1990 (RA:2021)
52.		Magnesium oxide	IS 1514(CI.-11.2.1):1990 (RA:2021)
53.	Micro Silica/Silica Fume	Alkalies as Na ₂ O	IS 4032:1985 (RA 2019)
54.		Loss on Ignition	IS 1727:1967 (RA:2018)
55.		Moisture Content	IS 15388:2003 (RA 2022)
56.		Silica	IS 1727:1967 (RA 2018)
57.	Ceramic Tiles	Resistance to alkaline	IS 13630 (P-8):2019
58.		Resistance to household	IS 13630 (P-8):2019
59.		Resistance to staining	IS 13630 (P-8):2019



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
1.	Construction Material (Soil)	pH	IS 2720 (Part-26):1987 (RA:2021)
2.		Moisture Content	IS 2720 (Part-2):1973 (RA:2020)
3.		Organic Matter	IS 2720 (Part-22):1972 (RA:2020)
4.		Cation exchange capacity (CEC)	IS 2720 (Part-24):1976 (RA:2020)
5.		Sulphate	IS 2720 (Part-27):1977 (RA:2020)
6.		Chloride	IS 3025 (Part-32):2025
7.		Calcium Carbonate	IS 2720 (Part-23):1976 (RA:2020)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Construction Water	Volume of reagent 0.02N NaOH required to neutralize 100 ml of water using phenolphthalein indicator	IS 3025(Part-22):2024
2.		Volume of reagent 0.02N H ₂ SO ₄ required to neutralize 100 ml of water using Mixed indicator	IS 3025(Part-23):2023
3.		Chlorides (as Cl)	IS 3025(Part-32):2025
4.		Inorganic Solid	IS 3025(Part-18):2022
5.		Organic Solid	IS 3025(Part-18):2022
6.		pH Value	IS 3025(Part-11):2022
7.		Suspended Matter	IS 3025 (Part-17):2022
8.		Sulphate	IS 3025(Part-24):2022
9.	Drinking Water	Acidity	IS 3025(Part-22):2024
10.		Alkalinity	IS 3025(Part-23):2023
11.		Chlorides	IS 3025(Part-32):2025
12.		Colour	IS 3025(Part-4):2021
13.		Dissolved Oxygen	IS 3025(Part-38):2025

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
14.	Drinking Water	Odour	IS 3025(Part-5):2018 (RA 2023)
15.		pH Value	IS 3025(Part-11):2022
16.		Specific Conductance (at 25°C)	IS 3025(Part-14):2013 (RA 2023)
17.		Sulphate	IS 3025(Part-24):2022
18.		TDS	IS 3025(Part-16):2023
19.		Total Hardness (as CaCO ₃)	IS 3025(Part-21):2009 (RA 2024)
20.		Turbidity	IS 3025, Part-10:2023



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resin		
1.	Plastic products / Pipes and Raw Materials	Density	IS: 13360 (Part-3 sec 10): 2021 (RA 2025), IS: 13360 (Part-3 sec 11): 2021 (RA 2025), IS 13360 Part 3 sec 12: 2016 (R 2026)
2.		Apparent density	IS 13360 (Part-3 sec 2): 2025, IS 13360 (Part-3 sec 3): 2026
3.		Ash Content	IS 15351:2015(R2019), IS 15225:2022(R2024)
4.		Overall migration	IS 9845:1998(R2020)
5.		Sulphated ash content	IS 4985:2021 (RA 2026)
6.		Water Content	IS 4984:2016 (R2026)
7.		Environmental stress crack resistance	IS 12786:2024
8.		Volatile content/matter	IS 4984:2016(R2021), IS 12786:1989
9.		Resistance to sulphuric acid	IS 12235 Part 7 :2004 (R2019)
10.		Chlorine content	IS 15778:2007(R2022)
11.		Vicat Softening temperature	IS 12235 Part 2:2004 (R2019), IS 13360 Part 6 Sec-1:2018 (RA 2023), IS 15328:2003 (R2018)
12.		K-value	IS 4669:1968 (R2018)
13.		Carbon black Density	IS 7498:1985(R2017)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal & Alloy		
1.	Carbon Steel	Carbon	IS 228 Part-1: 2025
2.		Silicon	IS 228 Part-8: 1989 (RA 2023)
3.		Manganese	IS 228 Part-2: 2024
4.		Sulphur	IS:228, Part-9: 1989 (RA 2023)
5.		Phosphorus	IS:228, Part-3: 2024
6.		Chromium	IS 228 Part-6: 2024
7.		Nickel	IS 228 Part-5: 1987 (RA 2023)
8.		Molybdenum	IS 228 Part-7: 2025
9.		Copper	IS 228 Part-15: 1992 (RA 2019)
10.	Stainless Steel	Chromium	IS 228 Part-6: 2024
11.		Carbon	IS 228 Part-1: 2025
12.		Manganese	IS 228 Part-2: 2024
13.		Nickel	IS 228 Part-5: 1987 (RA 2023)
14.		Sulphur	IS:228, Part-9: 1989 (RA 2023)
15.		Phosphorus	IS:228, Part-3: 2024
16.		Copper	IS 228 Part-15: 1992 (RA 2019)
17.		Silicon	IS 228 Part-8: 1989 (RA 2023)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallic Coatings & Treatment Solutions		
1.	Metallic coatings	Coating mass of zinc	IS 6745:1972 (RA 2021)
2.		Coating mass of copper/bronze	IS 4824:2022 (Annex B, method B-2)
3.		Uniformity of coating	IS 2633: 1986 (RA 2021)
4.		Corrosion Test	IS 9844: 1981 (RA 2021), IS 10461 (Part 1): 2025, IS 10461: Part 2: 1994 (RA 2021)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
1.	Cement (OPC/PPC/PSC)	Standard Consistency	IS 4031(Part 4):1988 (RA 2019)
2.		Setting Time (Initial)	IS 4031(Part 5):1988 (RA 2019)
3.		Setting Time (Final)	IS 4031(Part 5):1988 (RA 2019)
4.		Compressive Strength	IS 4031(Part 6):1988 (RA 2019)
5.		Fineness by Blaine/Air Permeability Method	IS 4031(Part 2):1999 (RA 2018)
6.		Soundness by Le-Chatelier method	IS 4031(Part 3):1988 (RA 2019)
7.		Soundness by autoclave method	IS 4031(Part 3):1988 (RA 2019)
8.		Density	IS 4031(Part 11):1988 (RA 2019)
9.	Coarse Aggregates	Sieve analysis	IS 2386(Part 1):1963 (RA 2021)
10.		Flakiness Index	IS 2386(Part 1):1963 (RA 2021)
11.		Elongation Index	IS 2386(Part 1):1963 (RA 2021)
12.		Crushing value	IS 2386(Part 4):1963 (RA 2021)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
13.	Coarse Aggregates	Impact value	IS 2386(Part4):1963 (RA 2021)
14.		Bulk density	IS 2386(Part 3):1963 (RA 2021)
15.		Water absorption	IS 2386(Part 3):1963 (RA 2021)
16.	Burnt Clay Building Bricks	Dimensions (Length)	IS 1077:2025
17.		Dimensions (Width)	IS 1077:2025
18.		Dimensions (Height)	IS 1077:2025
19.		Compressive strength	IS 3495(Part-1):2019
20.		Water absorption	IS 3495(Part-2):2019
21.		Efflorescence	IS 3495(Part-3):2019
22.		Warpage	IS 3495(Part-4):2019
23.		Modulus of rupture	IS 3495(Part-6):2021
24.		Initial rate of absorption	IS 3495(Part-5):2022
25.	AAC Block	Compressive strength	IS 6441(P-5):1972 (RA 2022)
26.		Dimension (Height)	IS 2185 (P-3):1985 (RA 2023)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
27.	AAC Block	Dimension (Length)	IS 2185 (P-3):1985 (RA 2023)
28.		Dimension (Width)	IS 2185 (P-3):1985 (RA 2023)
29.		Drying Shrinkage	IS 6441(P-2):1972 (RA 2023)
30.		Block Density	IS 6441 (P-1):1972 (RA 2023)
31.	AAC Block adhesive	Bulk Density	IS 2386 (P-3): 1963 RA 2021
32.		Compressive Strength	IS 2250 1981 RA 2020
33.		Open Time	IS 15477: 2019
34.		Split Tensile Strength	ASTM C-1660
35.	Clay Brick	Efflorescence	IS 3495 (P-3):2019
36.		Compressive strength	IS 3495 (Part 1):2019
37.		Water Absorption	IS 3495 (Part 2)
38.	Ceramic Tiles / Vitrified Tiles	Breaking Strength	IS 13630(P-6):2019
39.		Bulk Density	IS 13630(P-2):2019
40.		Crazing Resistance	IS 13630(P-9):2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
41.	Ceramic Tiles / Vitrified Tiles	Dimension (Length)	IS 13630(P-1):2019
42.		Dimension (Width)	IS 13630(P-1):2019
43.		Dimension (Thickness)	IS 13630(P-1):2019
44.		Hardness by Moh's Scale	IS 13630(P-13):2019
45.		Impact Resistance	IS 13630(P-14):2019
46.		Modulus of rupture	IS 13630(P-6):2019
47.		Moisture Expansion	IS 13630(P-3):2019
48.		Rectangularity	IS 13630(P-1):2019
49.		Straightness	IS 13630(P-1):2019
50.		Surface Flatness	IS 13630(P-1):2019
51.		Surface Quality	IS 13630(P-1):2019
52.		Thermal Shock Resistance	IS 13630(P-5):2019
53.		Water Absorption	IS 13630(P-2):2019
54.	Hardened Concrete	Compressive Strength (Cube/Cylinder)	IS 516:2021 (Part-1/Sec-1)
55.		Compressive Strength (ACT)	IS 9013:1978 (RA 2021)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
56.	Hardened Concrete	Compressive Strength (Core)	IS 516:2018 (Part-4)
57.		Flexural Strength	IS 516 (Part-1/Sec-1):2021
58.		Initial Surface Absorption Test	IS 516 (Part-2) Sec -2:2020
59.		Modulus of Elasticity	IS 516 (Part-8) Sec-1:2020
60.		Water Absorption	BS 1881(Part-122):2011
61.		Water Permeability	IS 516 (Part-2) Sec-1:2018 (RA 2023)
62.		Dimension (Length)	IS 2185(Part-3):1984 (RA 2020)
63.		Dimension (Width)	IS 2185(Part-3):1984 (RA 2020)
64.		Dimension (Height)	IS 2185(Part-3):1984 (RA 2020)
65.		Block density	IS 6441(Part-1):1972 (RA 2022)
66.		Rapid Chloride Penetration Test (RCPT)	ASTM C 1202-25
67.		Density	IS 516:2018 (Part-2) Sec-1 (RA:2023)
68.		Drying Shrinkage	IS 516:2020 (Part-6)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
69.	Concrete Admixture	Air Content	IS 1199 (Part-4): 2018
70.		Compressive Strength, Percent of Control Sample	IS 516 (Part-1/Sec-1):2021
71.		Flexural Strength, percent of control sample	IS 516 (Part-1/Sec-1):2021
72.		Loss of workability	IS 1199 (Part-2):2018
73.		Setting Time (Initial)	IS 1199(Part-7):2018 (RA 2023)
74.		Setting Time (Final)	IS 1199(Part-7):2018 (RA 2023)
75.		Slump	IS 1199(Part-2):2018 (RA 2023)
76.		Bleeding/% increased over control sample	IS 9103 (Annex D):1999 (RA 2018)
77.	Fine Aggregate	Bulking Of Sand	IS 2386:1963 (P-3) (RA 2021)
78.		Deleterious Material (Clay Lumps)	IS 2386:1963 (P-2) (RA 2021)
79.		Deleterious Material (Coal and Lignite)	IS 2386:1963 (P-2) (RA 2021)
80.		Deleterious Material (Material Finer Than 75 micron IS Sieve/Silt Content)	IS 2386:1963 (P-1) (RA 2021)/ASTM C117:2017
81.		Organic Impurities	IS 2386:1963 (P-2) (RA 2021)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
82.	Fine Aggregate	Sieve Analysis (Sieve Size:10 mm to 150 microns)	IS 2386:1963(P-1) (RA 2021)
83.		Soundness Test (Na ₂ SO ₄ and MgSO ₄)	IS 2386:1963(P-5) (RA 2021)
84.		Specific Gravity	IS 2386:1963(P-3) (RA 2021)
85.		Fineness Modulus	ASTM C136/M-136-25 (Cl. 9.2)
86.		Water Absorption	IS 2386:1963(P-3) (RA 2021)
87.	Fly Ash	Compressive strength	IS 1727:1967 (RA 2018)
88.		Fineness Blaine's & Permeability Method	IS 1727:1967 (RA 2018)
89.		Lime reactivity	IS 1727:1967 (RA 2018)
90.		Particle retained on 45μ sieve (wet sieving)	IS 1727:1967 (RA 2018)
91.		Soundness (by autoclave)	IS 1727:1967 (RA 2018)
92.		Specific Gravity	IS 1727:1967 (RA 2018)
93.	Kerb Stone	Bending Strength	IS 5758:2020 (Annex C)
94.		Dimensions (Length, Width, Height)	IS 5758:2020 (RA 2025)
95.		Water Absorption	IS 5758:1987 (RA 2021)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
96.	Marine Ply	Adhesion to plies	IS 1734(P-5):1983 (RA 2021)
97.		Glue shear Strength	IS 1734(P-4):1983 (RA 2021)
98.		Modulus of Elasticity	IS 1734 (P-11):1983 (RA 2021)
99.		Modulus of Rupture	IS 1734(P-11):1983 (RA 2021)
100.		Moisture content	IS 1734 (P-1):1983 (RA 2021)
101.		Squareness	IS 710:2024 (Annex C)
102.		Straightness	
103.		Tensile Strength	IS 1734(P-9):1983 (RA 2021)
104.		Water resistance	IS 710:2024 (Cl. 9.5)
105.	Micro Silica	Compressive Strength	IS 1727:1967 (RA 2018)
106.		Density	IS 1727:1967 (RA 2018)
107.		Oversize percentage retained on 45 micron IS Sieve	IS 1727:1967 (RA 2018)
108.	Paver Block	Compressive Strength	IS 15658:2021, Annex-D



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
109.	Paver Block	Dimension - Length	IS 15658:2021, Annex-B
110.		Dimension – Width	IS 15658:2021, Annex-B
111.		Dimension – Thickness	IS 15658:2021, Annex-B
112.		Flexural Strength	IS 15658:2021, Annex-G
113.		Tensile Splitting Strength	IS 15658:2021, Annex-F
114.		Squareness	IS 15658:2021, Annex-B
115.		Thickness of wearing layer	IS 15658:2021, Annex-B
116.		Water Absorption	IS 15658:2021, Annex-C
117.		Ratio of Wearing Face Area & Plan Area	IS 15658:2021, Annex-B
118.		Abrasion Resistance	IS 15658:2021, Annex-E
119.		Arris/Chamfer	IS 15658:2021, Annex-B
120.		Aspect Ratio	IS 15658, Annex-B:2021
121.	Plywood for General Purpose	Adhesion of Plies	IS 1734(P-5):1983 (RA 2021)
122.		Dimensions (Length)	IS 303:2024



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
123.	Plywood for General Purpose	Dimensions (Width)	IS 303:2024
124.		Dimensions (Thickness)	IS 303:2024
125.		Modulus of Elasticity	IS 1734 (Part- 11):1983 (RA 2021)
126.		Modulus of Rupture	IS 1734 (Part- 11):1983 (RA 2021)
127.		Moisture Content	IS 1734 (P-1):1983 (RA 2021)
128.		Water Resistance	IS 1734 (P-6):1983 (RA 2021)
129.	Plywood for Concrete Shuttering Works	Adhesion of Plies	IS 1734 Part-5:1983 (RA 2021)
130.		Dimensions (Length)	IS 4990:2024
131.		Dimensions (Width)	IS 4990:2024
132.		Dimensions (Thickness)	IS 4990:2024
133.		Edge Straightness	IS 4990, Annex-C:2024
134.		Glue Shear Strength	IS 1734 Part-4:1983 (RA 2021)
135.		Modulus of Rupture	IS 1734 (Part- 11):1983 (RA 2021)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
136.	Plywood for Concrete Shuttering Works	Moisture Content	IS 1734 (P-1):1983 (RA 2021)
137.		Water Resistance	IS 1734 (P-6):1983 (RA 2021)
138.		Squareness	IS 4990, Annex-C:2024
139.	Shuttering Plywood	Modulus of elasticity	IS 1734 PART 11:1983 (RA 2021)
140.		Modulus of Rupture	IS 1734 (Part-11):1983 (RA 2021)
141.		Tensile Strength	IS 1734 (Part-9):1983 (RA 2021)
142.	White cement	Autoclave Expansion	IS:4031-3:1988 (RA 2019)
143.		Compressive strength	IS:4031-6:1988 (RA 2019)
144.		Consistency	IS:4031-4:1988 (RA 2019)
145.		Degree of whiteness	IS: 8042:2015 – Annex B (RA 2020)
146.		Density	IS:4031-11:1988 (RA 2019)
147.		Fineness, Blaine's/Air Permeability Method	IS:4031-2:1999 (RA 2023)
148.		Le Chatelier Expansion	IS:4031-3:1988 (RA 2019)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
149.	White cement	Setting time-Final	IS:4031-5:1988 (RA 2019)
150.		Setting time-Initial	IS:4031-5:1988 (RA 2019)
151.	Doors and Shutters	Buckling Resistance	IS 4020 (Part-9):1998 (RA 2021)
152.		Dimensions (Length)	IS 4020 (Part-2):1998 (RA 2021)
153.		Dimensions (Width)	IS 4020 (Part-2):1998 (RA 2021)
154.		Dimensions (Thickness)	IS 4020 (Part-2):1998 (RA 2021)
155.		Edge Loading Test	IS 4020 (Part-7):1998 (RA 2021)
156.		End Immersion Test	IS 4020 (Part-13):1998 (RA 2021)
157.		General Flatness	IS 4020 (Part-3):1998 (RA 2021)
158.		Glue Adhesion Test	IS 4020 (Part-15):1998 (RA 2021)
159.		Impact Indentation Test	IS 4020 (Part-5):1998
160.		Knife Test	IS 4020 (Part-14):1998 (RA 2021)
161.		Local Planeness	IS 4020 (Part-4):1998 (RA 2021)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
162.	Doors and Shutters	Misuse Test	IS 4020 (Part-11):1998 (RA 2021)
163.		Screw Withdrawal Resistance Test	IS 4020 (Part-16):1998 (RA 2021)
164.		Shock Resistance Test	IS 4020 (Part-8):1998 (RA 2021)
165.		Slamming Test	IS 4020 (Part-10):1998 (RA 2021)
166.		Squareness	IS 4020 (Part-2):1998 (RA 2021)
167.		Varying Humidity Test	IS 4020 (Part-12):1998 (RA 2021)
168.	Fly Ash Brick	Dimension (Length)	IS 12894:2002 (RA 2021)
169.		Dimension (Width)	IS 12894:2002 (RA 2021)
170.		Dimension (Height)	IS 12894:2002 (RA 2021)
171.		Compressive strength	IS 3495(Part-1):2019 (RA 2026)
172.	Bitumen & Bituminous products	Loss in weight	IS: 9382: 2022
173.		Absolute viscosity	IS: 1206 (Part II)-2022
174.		Bitumen binder content	IS: 19008:2023 & IRC: SP: 11



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
175.	Bitumen & Bituminous products	Depth of Penetration	IS 1203:2022
176.		Elastic recovery of half thread in ductilimeter	IRC: SP: 53
177.		Fire point	IS 1448 (Part 69):2019 (RA 2024)
178.		Flash point	IS 1448 (Part 69):2019 (RA 2024)
179.		Separation, Difference in softening point R&B	IRC: SP: 53
180.		Softening point	IS 1205:2022
181.		Solubility in trichloroethylene	IS 1216:2026
182.		Specific gravity	IS 1202:2021
183.		Ductility	IS 1208 (Part-1): 2023
184.		Increase in softening point	IS 1205: 2022
185.		Reduction in penetration of residue	IS 1203:2022
186.		Specific gravity at 27°C	IS 1216:2026
187.		Kinematic Viscosity at 135°C	IS 1206 (Part 3) : 2021
188.		Absolute Viscosity at 60°C	IS 1206 (Part 2) : 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Infrastructure & Construction Materials		
189.	Bitumen & Bituminous products	Matter insoluble in toluene	IS 1216:2026
190.	Bitumen Emulsion	Coagulation of emulsion	IS 8887:2018 (RA 2026)
191.		Miscibility with water	IS 8887:2018 (RA 2026)
192.		Residue on 600 microns	IS 8887:2018 (RA 2026)
193.		Stability to mixing with cement	IS 8887:2018 (RA 2026)
194.		Storage stability after 24h	IS 8887:2018 (RA 2026)
195.		Tests on residue-Depth of Penetration	IS: 1203:1978 (RA 2020)
196.		Tests on residue-Ductility	IS: 1208 (Part-1): 2023
197.		Tests on residue-Residue by evaporation	IS: 8887:2018 (RA 2019)
198.		Tests on residue-Solubility in trichloroethylene	IS 1216:2026
199.		Viscosity by saybolt furol viscometer	IS: 3117:2025
200.		Bitumen Content	IS: 3117:2006 (Annex-B) (RA 2021)
201.		Coagulation of Emulsion	IS: 8887:2018 (Annex-C) (RA 2019)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil-Basic		
1.	Soil	Maximum Dry Density & OMC Relation	IS 2720 (Part 8):1983 (RA:2020)/ IRC SP:58 guidance
2.		Water Content	IS 2720 (Part 2):1973 (RA:2020)/ IRC SP:58 guidance
3.		CBR	IS 2720 (Part 16):1987 (RA 2021)
4.		Plastic Limit	IS 2720 (Part-5):1985
5.		Liquid Limit	IS 2720 (Part-5):1985
6.		Plasticity Index	IS 2720 (Part-5):1985
7.		Gradation	IS 2720 (Part 4):1985 (RA:2020)/ IRC SP:58



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
1.	Plastic products / Pipes and Raw Materials	Visual appearance	IS 4984:2016 (R2021), IS 4985:2021, IS 12786:2024, IS 13592:2013(R2018), IS14333:2022, IS 15328:2003(R2018), IS 15778:2007(R2022), IS 15801:2008(R2022), IS17425:2026, IS 17546:2021 (RA 2026)
2.		Workmanship and appearance	IS 17425:2020
3.		Opacity	IS 12235 (Part-3):2004 (R2019)
4.		Reversion Test	IS 12235 (Part 5/Sec 1) R 2019 IS 12235(Part-5):2004 (R2019), IS 4984 :2016(R2021), IS 12786:2024, IS 17425:2026,
5.		Tensile strength & Yield Strength	IS: 13360 (Part-5, Sec1 &2) :2021, IS 4984:2016(R2021), IS 2530:1963(R2018), IS 12235 (Part 13):2004 (R2019) IS 17425:2026, IS 1969 Part 2: 2018
6.		Elongation	IS: 13360 (Part-5, Sec 1&2):2021, IS 4984:2016(R2021), IS 2530:1963(R2018), IS 1969:2018, IS 17425:2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
7.	Plastic products / Pipes and Raw Materials	Colour	IS 4984:2016(R2021), IS 4985:2021, IS 14333:2022, IS 13592:2013 (R2018), IS 15328:2003 (R2018), IS 15778:2007 (R2022)
8.		Length	IS 14333:2022, IS 15351:2015 (R2019), IS 15801:2008 (R2022), IS 15328:2003 (R2018), IS 12786:1989 (R2021)
9.		Puncture Resistance Test	IS 2508:2024, Annex E
10.		Width	IS15351:2015 (R2019), IS15328:2003 (R2018)
11.		Minimum depth of Engagement	IS 4985:2021, IS 14252:2015 (R2020)
12.		Out of square of pipe end	IS 4984 :2016 (R2021), IS 14333 :2022, IS 17425:2026
13.		Hydrostatic Pressure Test (Internal Pressure Creep rupture test for pipe)	IS 4984 :2016 (R2021), IS 12786:2024, IS 17425:2026



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
14.	Plastic products / Pipes and Raw Materials	Internal hydrostatic pressure test	IS 4985:2021, IS 15328:2003(R2018) IS 15351:2015(R2019), IS 12235: Part 8 Sec 1,2,3,4
15.		Tensile strength of butt- fusion	IS 4984 :2016(R2021)
16.		Mean Socket Internal Diameter at Mid-Point of Socket Length,	IS 4985:2021
17.		Socket Inner Diameter	IS 4985:2021
18.		Resistance to external blow at 0°	IS 4985:2021, IS 12235 :2004 Part 9 (R2019), IS 15328:2003(R2018)
19.		Threading of screen and casing pipe	IS 554:1999 (R 2019)
20.		Water tightness of joints	IS 13592:2013(R2018), IS 12235 part-8 sec 2:2004 (R 2019)
21.		Axial shrinkage	IS 13592:2013(R2018),
22.		Ring Stiffness	IS 15328:2003(R2018)
23.		Verification of the malfunction temperature	IS 15778:2007(R2022)
24.		Flattening Test	IS 12235 Part 19:2004 (R2019)
25.		Stress relief test	IS 12235 Part 6 :2004 (R 2019)
26.		Effect of sunlight	IS 13592:2013(R2018)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
27.	Plastic products / Pipes and Raw Materials	Melt Flow Rate	IS 13360(Part 4, Sec.1): 2000 (R2018), IS 2530:1963 (R2018)
28.		Dimensions of Sockets	IS 4985:2021
29.		Pipe Ends	IS 4985:2021, IS 15778:2007(R2022)
30.		Hardness	IS 3400 Part 2 2014 (R 2019) IS 17425:2026
31.		Carbon Particle size	IS 4984:2016 (R 2021) IS 14333:2022
32.		Coating thickness	IS 1573:1986 (R 2021)
33.		Heat Ageing	IS 17425:2026
34.		Leakage Test	IS 17425:2026
35.		Hydraulic Proof Test	IS 17425:2026
36.		Fusion Compatibility Test	IS 17425:2026 IS 15801:2008 (R2022)
37.		Charpy Impact Strength	IS 13360 Part 5/ Sec-5:2017
38.		Izod impact	IS 13360 Part 5 sec 4: 2021, IS 15801:2008 (R2022)
39.		Thermal Stability by Hydrostatic Pressure Testing	IS 15801:2008(R2022), IS 15778:2007(R2022)
40.		Resistance to Heating	IS 12235 Part 6:2004 (R2019)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
41.	Plastic products / Pipes and Raw Materials	Dimensions Wall Thickness	IS 12235(Part-1) :2004 (R2019), IS 4984:2016 (R2021), IS 12786:2024, IS15801:2008(R2022), IS17425:2026
42.		Socket length (Depth)	IS 12235(Part-1) :2004
43.		Mean outside diameter	IS 12235(Part-1) :2004, IS4984:2016(R2021), IS12786:2024
44.		Inside diameter	IS12235(Part-1) :2004
45.		Outside diameter at any points	IS 12235(Part-1) :2004, IS4984:2016(R2021), IS4985:2021, IS15801:2008(R2022), IS17425:2020
46.		Ovality	IS 12235(Part-1) :2004, IS 4984:2016(R2021), IS 15801:2008(R2022), IS17425:2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metal		
1.	Metals Ferrous & Non-ferrous (Structural steel/High strength deformed bar/Steel Tubes / Pipe / Hollow steel/Steel Wires -Mild steel / Hard drawn)	Tensile Strength	IS:1608 part-1: 2018
2.		Elongation	IS:1608 part-1: 2018
3.		Reduction of Area	IS:1608 part-1: 2018
4.		Yield Stress/0.2% proof stress	IS:1608 part-1: 2018
5.	Metals Ferrous & Non-ferrous (Structural steel/High strength deformed bar)	Mass per meter run	IS:1786: 2008
6.		Rockwell Hardness	IS:1586, Part 1: 2018
7.		Vickers Hardness HV5	IS:1501, Part 1: 2013
8.		Vickers Hardness HV10	IS:1501, Part 1: 2013
9.		Vickers Hardness HV30	IS:1501, Part 1: 2013
10.		Impact, Charpy (U notch) (Ambient temperature)	IS 1499: 1977
11.		Brinell Hardness	IS 1500 Part 1:2019
12.		Impact, Charpy (V) (-) Ambient temperature) (-)196	IS:1757, Part-1: 2014
13.		Izod impact test	IS 1598:1977 RA 2020



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Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material- Reinforced Concrete Solution		
1.	Hardened concrete/Reinforced concrete	Ultrasonic Pulse Velocity Test	IS 516 (Part 5/Sec 1):2018
2.		Carbonation depth test	IS 516 (Part 5/Sec 3):2021
3.		Half-Cell Potentials of Uncoated Reinforcing Steel in Concrete	IS 516 (Part 5/Sec 2):2021
4.		Rebound Hammer Test	IS 516 (Part 5/Sec 4):2020
5.		Crack width	ACI 224.1R-93 Clause 2.2

