

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



CERTIFICATE OF ACCREDITATION (AS PER ISO/IEC 17025:2017)

This is to attest that

SIGMA TEST AND RESEARCH CENTRE.

99, Badli Industrial Area, Phase-2,
New Delhi-110042 (Delhi), India

Testing Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for testing laboratories.

Certificate Number: TL-124

Issue Date: 10.07.2024

Valid Until: 09.07.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www.fdasindia.org).

A handwritten signature in blue ink, appearing to read 'Devi Saran Tewari', is written over a light blue background.

DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 124)

Laboratory Name: Sigma Test and Research Centre
99, Badli Industrial Area, Phase-2, New Delhi-110042

Validity: 10.07.2024 to 09.07.2026

Amended on N/A

S.No.	Material/Products	Component/Parameter/ Characteristic Tested	Test Method	Equipment Used
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Mechanical Testing (Laboratory Based)

Group-Building Materials				
1.	Coarse Aggregate	Aggregate Impact Value	IS 2386(P-4):1963
		10% Fines Value	IS 2386(P-4):1963	
		Aggregate Abrasion Value	IS 2386(P-4):1963	
		Aggregate Crushing Value	IS 2386(P-4):1963	
		Bulk Density	IS 2386(P-3):1963	
		Flakiness Index	IS 2386(P-1):1963	
		Elongation Index	IS 2386(P-1):1963	
		Combines Flakiness & Elongation Index	IS 2386(P-1):1963	
		Material Finer Than 75µm	IS 2386(P-1):1963	
		Clay & Lumps	IS 2386(P-2):1963	
		Coal & Lignite	IS 2386(P-2):1963	
		Specific Gravity	IS 2386(P-3):1963	
		Water Absorption	IS 2386(P-3):1963	
		Particle Size (Sieve Analysis)	IS 2386(P-1):1963	
		Soundness (Sodium Sulphate)	IS 2386(P-5):1963	
Soundness (Magnesium Sulphate)	IS 2386(P-5):1963			

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Amended on N/A

S.No.	Material/Products	Component/Parameter/ Characteristic Tested	Test Method	Equipment Used
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Mechanical Testing (Laboratory Based)

2.	Fine Aggregate	Material Finer Than 75 μ m	IS 2386(P-1):1963
		Clay & Lumps	IS 2386(P-2):1963	
		Coal & Lignite	IS 2386(P-2):1963	
		Specific Gravity	IS 2386(P-3):1963	
		Water Absorption	IS 2386(P-3):1963	
		Bulk Density	IS 2386(P-3):1963	
		Particle Size (Sieve Analysis)	IS 2386(P-1):1963	
		Organic Impurities	IS 2386(P-2):1963	
		Clay, Fine Silt & Fine Dust (Silt Content)	IS 2386(P-2):1963	
		Soundness (Sodium Sulphate)	IS 2386(P-5):1963	
		Soundness (Magnesium Sulphate)	IS 2386(P-5):1963	
3.	Bricks	Length	IS 1077:1992
		Width	IS 1077:1992	
		Thickness	IS 1077:1992	
		Water Absorption	IS 3495(P-2):2019	
		Compressive Strength	IS 3495(P-1):2019	
		Efflorescence	IS 3495(P-3):2019	
4.	Cement	Consistency	IS 4031(P-4):1988
		Setting Time (Initial)	IS 4031(P-5):1988	
		Setting Time (Final)	IS 4031(P-5):1988	
		Soundness (Le-Chatelier)	IS 4031(P-3):1988	
		Soundness (Autoclave)	IS 4031(P-3):1988	

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Mechanical Testing (Laboratory Based)

		Fineness (Blaine's Air Permeability)	IS 4031(P-2):1999
		Compressive Strength	IS 4031(P-6):1988	
		Drying Shrinkage	IS 4031 (P-10):1988	
		Density	IS 4031 (P-11):1988	
5.	Concrete Cube & Core	Compressive Strength	IS 516 (P-1/Sec-1):2021
		Compressive Strength	IS 516 (P-4):2018	
6.	Natural Building Stones	Apparent Specific Gravity	IS 1124:1974
		Water Absorption	IS 1124:1974	
		Apparent Porosity	IS 1124:1974	
		True Porosity	IS 1124:1974	
		True Specific Gravity	IS 1122:2023	
		Resistance to Wear	IS 1706:1972	
		Moh's Hardness	Moh's Scale	
		Moh's Hardness	IS 13630 (P-13):2019	
		Abrasion Resistance (Bohme Abrasion)	BS EN 14157:2017	
		Compressive Strength	BS EN 1926:2006	
		Water Absorption	BS EN 13755:2008	
		Flexural Strength	BS EN 12372:2022	
		Real Density	BS EN 1936:2006	
		Apparent Density	BS EN 1936:2006	
Total Porosity	BS EN 1936:2006			
Open Porosity	BS EN 1936:2006			

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Mechanical Testing (Laboratory Based)

7.	Agglomerated Stones	Water Absorption	BS EN 14617-1:2013
		Apparent Density	BS EN 14617-1:2013	
		Flexural Strength	BS EN 14617-2:2016	
		Compressive Strength	BS EN 14617-15:2005	
8.	Stones	Water Absorption	ASTM C 97/C97M-18
		Specific Gravity	ASTM C 97/C97M-18	
		Compressive Strength	ASTM C 170/C170M-23	
		Modulus of Rupture/Flexural Strength	ASTM C 99/C99M-18	
		Moh's Hardness	ASTM C 1895-20	

Group - Soil and Rock

1.	Soil	MDD (Light Compaction)	IS 2720(P-7):1980
		OMC (Light Compaction)	IS 2720(P-7):1980	
		MDD (Heavy Compaction)	IS 2720(P-8):1983	
		OMC (Heavy Compaction)	IS 2720(P-8):1983	
		Specific Gravity	IS 2720(P-3/Sec-1):1980	
		Specific Gravity	IS 2720(P-3/Sec-2):1980	
		Water Content (Moisture Content)	IS 2720(P-2):1973	
		Field Density Test (FDD) (Core Cutting Method)	IS 2720(P-29):1975	
		Field Density Test (FMC) (Core Cutting Method)	IS 2720(P-29):1975	

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Mechanical Testing (Laboratory Based)

Group - Wood and Wood Products					
1.	Timber	Moisture Content	IS 1708 (P-1 to P-18):1986	
		Density/Specific Gravity			
		Modulus of Rupture			
		Modulus of Elasticity			
		Nail and Screw Holding Power			
2.	Plywood	Moisture Content	IS 1734 (P-1 to P-20):1983	
		Density/Specific Gravity			IS 1734 (P-1 to P-20):1983
		Modulus of Rupture			IS 1734 (P-1 to P-20):1983
		Modulus of Elasticity			IS 1734 (P-1 to P-20):1983
		Nail and Screw Holding Power			IS 1734 (P-1 to P-20):1983
3.	Particle Board	Moisture Content	IS 2380 (P-1 to P-21):1977	
		Density/Specific Gravity			IS 2380 (P-1 to P-21):1977
		Modulus of Rupture			IS 2380 (P-1 to P-21):1977
		Modulus of Elasticity			IS 2380 (P-1 to P-21):1977
		Screw and Nail Withdrawal			IS 2380 (P-1 to P-21):1977

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Mechanical Testing (Laboratory Based)

Group - Plastics and Plastic Products				
1.	Polyolefin Materials	MFI	IS 2530:1963
2	Thermoplastic Materials	Density	IS 12235 (P-14):2004
		Tensile Strength	IS 12235 (P-13):2004	
		Elongation	IS 12235 (P-13):2004	
Group - Mechanical Properties of Metal				
1.	Ferrous and Non Ferrous Materials, Alloys and Products	Rockwell Hardness (HRA)	IS 1586(P-1):2018
		Rockwell Hardness (HRB)	IS 1586(P-1):2018	
		Rockwell Hardness (HRC)	IS 1586(P-1):2018	
2.	High Strength Deformed Steel Bars & Wires For Concrete Reinforcement	Bend	IS 1599:2023
		Rebend	IS 1786:2008	
		Mass	IS 1786:2008	
3.	Hot Rolled Medium and High Tensile Structural Steel	Bend	IS 1599:2023
		Dimensions	IS 808:2021	
		Dimensions	IS 1730:1989	
		Dimensions	IS 1732:1989	
		Mass	IS 808:2021	
		Mass	IS 1730:1989	
Mass	IS 1732:1989			
Group - Paper and Paper Products				
1.	Paper and Allied Products	Grammage	IS 1060 (P-5/Sec-5):2021
		Tensile Strength	IS 1060 (P-5/Sec-6):2014	

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Mechanical Testing (Laboratory Based)

		Elongation At Break	IS 1060 (P-5/Sec-6):2014
		Tensile Index	IS 1060 (P-5/Sec-6):2014	
		Bursting Strength	IS 1060 (P-6/Sec-2):2014	
		Bursting Strength	IS 1060 (P-7/Sec-1):2014	
		Moisture Content	IS 1060 (P-5/Sec-2):2021	

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NDT Testing (At Site)

Group-Building Materials				
1.	Concrete	Ultrasonic Pulse Velocity	IS 516 (P-5/Sec-1):2018
		Half Cell Potential of Uncoated Reinforcing Steel in Concrete	IS 516 (P-5/Sec-2):2021	
		Carbonation Depth	IS 516 (P-5/Sec-3):2021	
		Rebound Hammer	IS 516 (P-5/Sec-4):2020	
		Pullout Strength of Hardened Concrete	ASTM C 900-23	

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