

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

GRAVITAS LABORATORIES PVT LTD
Plot No.95, Ecotech II, Udyog Vihar Extension,
Greater Noida (Uttar Pradesh)-201306, 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-125

Issue Date: 17.08.2024

Valid Until: 16.08.2026

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 rectangular background.

DEVI SARAN TEWARI
Director

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SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 125)

Laboratory Name: Gravitas Laboratories Pvt. Ltd.
Plot no 95, Ecotech II Udyog Vihar Extn. Greater Noida 20130

Validity: 17.08.2024 to 16.08.2026

Amended on NA

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
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Chemical Testing (Laboratory Based)

Group-Building Material				
1.	Fine/Coarse Aggregate	Alkali Aggregate reactivity (Soluble silica)	IS 2386 (Part 7): 1963	----
		Alkali Aggregate reactivity (Reduction in alkalinity)		
		Sulphate	BS 812 (P 118) :1988	
		Chloride	IS 4032:1985	
2.	Water for construction purpose	pH	IS 3025 Part 11 : 2022	----
		Inorganic	IS 3025 Part 18 : 2022	
		Organic	IS 3025 Part 18 : 2022	
		Sulphate (SO ₃)	IS 3025 Part 24 Sec1:2022	
		Chloride	IS 3025 Part 32: 1988 (RA 2019)	
		Total Suspended Solid	IS 3025 Part 17 : 2022	
		Acidity	IS 3025 Part 22: 1986 (RA 2019)	
		Alkalinity	IS 3025 Part 23 : 2023	
Group-Metals and Alloys				
1.	Copper and its Alloy	Aluminum as Al	BS EN 15079: 2015	Spectrometer
		Arsenic as As		
		Cadmium as Cd		
		Bismuth as Bi		
		Iron as Fe		
		Lead as Pb		
		Manganese as Mn		
		Nickel as Ni		
Phosphorus as P				

Jitendra Parmar

Dealing Officer

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Chemical Testing (Laboratory Based)

		Silicon as Si	BS EN 15079: 2015	Spectrometer
		Silver as Ag		
		Tin as Sn		
		Antimony as Sb		
		Selenium as Se		
		Sulfur as S		
2.	Galvanized Steel	Mass of Zinc Coating	IS 6745: 1972	----
		Uniformity of Zinc Coating	IS 2633: 1986	
		Adhesion of Zinc Coating	IS 2629: 1985	
3.	Copper and Copper Alloy Tubes	Ammonia Vapour Cracking Test	IS 1545:1994	----

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

Group-Building Material				
1.	Coarse Aggregate	10% fine value	IS 2386(Part-4):1963	----
		Aggregate Crushing value	IS 2386(Part-4):1963	
		Bulk Density	IS 2386(Part-3):1963 RA 2021	
		Sieve Analysis	IS 2386(Part-1):1963	
		Impact Value	IS 2386(Part-4):1963	
		Los Angles Abrasion Test	IS 2386(Part-4):1963	
		Material finer than 75 micron IS sieve	IS 2386(Part-1):1963	
		Coal & Lignite	IS 2386 (part-2):1963	
		Clay lumps	IS 2386 (part -2) : 1963	
		Water Absorption	IS 2386(Part-3):1963	
		Soundness Test	IS 2386 (part-5) : 1963	
		Specific Gravity	IS 2386 (part-3) : 1963	
Combined Flakiness & Elongation Index	IS 2386 (Part -1):1963			
2.	Fine Aggregate	Bulk Density	IS 2386(Part-3):1963 RA 2021	----
		Sieve Analysis	IS 2386(Part-1):1963	
		Material finer than 75 micron IS sieve	IS 2386(Part-1):1963	
		Coal & Lignite	IS 2386 (part -2) : 1963	
		Clay lumps	IS 2386 (part -2) : 1963	
		Water Absorption	IS 2386(Part-3):1963	
		Soundness Test	IS 2386 (part-5) : 1963	
		Specific Gravity	IS 2386 (part-3) : 1963	

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Mechanical Testing (Laboratory Based)

3.	Paver Block	Length	IS 15658: 2021 IS 15658: 2021	----
		Width		
		Arris/Chamfer		
		Aspect ratio		
		Thickness		
		Thickness of wearing layer		
		Visual observation		
		Wearing face area		
		Plan area		
		Ratio of wearing face area and plan area		
		Deviation from squareness		
		Compressive Strength		
		Water Absorption		
		Abrasion resistance (Wet Condition)		
Abrasion resistance (Dry Condition)				
Visual inspection				

Group-Mechanical Properties of Material

1.	Metallic Materials	Tensile Strength	IS 1608 Part 1:2022	----
		0.2% Proof Stress		
		Yield Stress		
		Elongation		
		Reduction of Area		
		Bend Test	IS 1599:2019	
		Ericksen Cupping Test	IS 10175:2018	

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Mechanical Testing (Laboratory Based)

		Charpy V Impact Strength	IS 1757 Part 1:2020	
		Hardness Rockwell	IS 1586 Part 1:2018	
2.	Billets and Bars	Shapes and Sizes	IS 4026:2023	----
3.	Round Tube	Dimensions and Tolerances (Outside Diameter, Wall Thickness, Tolerance on Diameter, Tolerance on Straightness,	IS 2678:1987, IS 5082:1988	----
4.	Wrought Aluminum Utensils	Fabrication Shape and Dimensions Handles Workmanship and Finish	IS 1660:2009	----
5.	Aluminum and Aluminum Alloy Bare Foil for Food Packaging	Freedom from Defects Average Thickness Dimensions and Tolerances (Thickness, Width, Length) Tensile Breaking Load Surface Condition	IS 15392:2003 IS 13237:1991	----

Group- Metallography Test

1.	Copper Tubes	Microscopic Examination (100X)	ISO 2624:1990, IS 10773:1995, IS 2501:1995, IS 1545:1994, IS 14810:1990	----
2.	Metallographic Properties of Steel Products	Grain Size (100X) Decarburization: 0-1.0 mm (100X)	IS 4748:2021 IS 6396:2023	----

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Mechanical Testing (Laboratory Based)

		Non-Metallic Inclusions: 0.5 to 5.0 Severity rating (100X)	IS 4163:2021	
		Macro Etch (20X)	IS 11371:2022	
3.	High Carbon Steel Wire Rods	Microstructure (50-1000x)	IS 7904:1995	----
4.	Grey Iron Castings	Microstructure (50-1000x)	IS 210:2009	----

Group-Performance Test

1.	Stainless Steel Cookware	Material Thickness	IS 14756:2022 IS 15960:2013	----
		Shapes and Dimensions, Dimensions of Utensil (Body Thickness, Height and Tolerances)		
		Workmanship and Finish		
		Coating Thickness Test		
		Mechanical Shock Test		
		Dry Heat Test		
		Thermal Shock Test		
		Staining Test		
		Nominal Capacity Test		
		Tests on Tempered Glass Lid- Fragmentation Test, Ball Drop Test, Free Fall, Thermal Shock Test		

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