

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

M/s RAHUL ENGINEERS LABORATORY PRIVATE LIMITED.

5-A, Chitrakut Nagar, Bhuwana Bypass Road,
Udaipur (Rajasthan)-3131001, 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-115

Issue Date: 01.11.2023

Valid Until: 31.10.2025

***Amended On :** 01.06.2024

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).

***Amended because of the change in the name of the laboratory.**


DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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SCOPE OF ACCREDITATION*

(Annexure to Certificate of TL - 115)

Laboratory Name: M/s Rahul Engineers Laboratory Private Limited.
5-A, Chitrakut Nagar, Bhuwana Bypass Road, Udaipur (Rajasthan)-3131001, India

Validity: 01.11.2023 to 31.10.2025 **Amended on:** 01.06.2024

Chemical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Building Materials				
1	Cement (OPC/PPC/White Cement)	Al ₂ O ₃	IS 4032:1985 RA: 2019
		CaO		
		Fe ₂ O ₃		
		Insoluble Residue		
		Loss on Ignition		
		MgO		
		Silica		
		Sulphuric Anhydride		
		Sodium Oxide		
		Potassium Oxide		
2	Plaster of Paris	Calcium Oxide (as CaO)	IS 1288:1982 RA: 2021
		Soluble Magnesium Salt (as MgO)		
		Sulphur Trioxide (as SO ₃)		
		Loss on Ignition	IS 2547(Part-1):1976 RA:2017	
		Soluble Magnesium Salt (as MgO)		

Jitendra Parmar
Dealing Officer

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ORES & MINERALS				
1	Bauxite, Aluminium and Red Ochre Ore	Al ₂ O ₃	IS 2000 (Part 3) RA:2017
		Fe ₂ O ₃		
		LOI		
		MgO	SOP No.REL/TP/BUX/01 Issue No. 1 March 16	
		CaO	IS 2000 (Part 2) RA: 2017	
		SiO ₂		
		TiO ₂	IS 2000 (Part 5) RA: 2017	
2	Diatomaceous/Siliceous Earth	Al ₂ O ₃	SOP No. RE/TP/DE/02 Issue No. 1 March 16
		CaO		
		Fe ₂ O ₃		
		LOI		
		MgO		
		Moisture		
		Non-Reactive Silica		
		Total Silica		
3	Feldspar	Al ₂ O ₃	IS 9749 RA: 2017
		K ₂ O		
		Na ₂ O		
		SiO ₂		
4	Iron Ore	SiO ₂	IS 1493 (Part-1) RA: 2016
		Total Iron		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
5	Limestone & Dolomite/ Calcite/ Magnesite / Stone & Granite	Al ₂ O ₃	IS 1760 (Part 3) RA:2017
		CaO		
		Fe ₂ O ₃		
		MgO		
		Chloride	IS 1760 (Part 5) RA:2017	
		LOI	IS 1760 (Part 1) RA:2017	
		SiO ₂	IS 1760 (Part 2) RA:2017	
		Total Carbonates	SOP No. REL/TP/TC/01 Issue No. 1 March 14	
		CaCO ₃	SOP No. REL/TP/TC/01 Issue No. 1 March 14	
		MgCO ₃	SOP No. REL/TP/TC/01 Issue No. 1 March 14	
6	Quartz/Silica Sand	Iron as Fe	IS 1917 (Part 5) RA:2017
		SiO ₂	IS 1917 (Part 3) RA:2017	
7	Soap Stone/Talc/ Steatite/	Al ₂ O ₃	IS 10429 RA:2017
		CaO		
		Fe ₂ O ₃		
		SiO ₂		
		LOI	IS 1462 :2019	
		Matter Soluble in Water		
		MgO		
		pH		
8	Water(Bore Well, Domestic, Drinking, Potable, Construction purpose, Irrigation,	Acidity	IS 3025 (Part 22) RA :2019
		Alkalinity	IS 3025 (Part 23) RA :2023	
		Calcium as Ca	IS 3025 (Part 40) RA :2019	
		Chlorides as Cl	IS 3025 (Part 32) RA :2019	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
	Swimming pool, Waste)	Color	IS 3025 (Part 4) RA :2019	
		Conductivity	IS 3025 (Part 14)RA :2013	
		Hexavalent Chromium	IS 3025 (Part 52) RA :2019	
		Iron as Fe	IS 3025 (Part 53) RA :2019	
		Magnesium as Mg	IS 3025 (Part 46) RA :2019	
		pH	IS 3025 (Part 11) RA :2022	
		Sulphate as SO ₄	IS 3025 (Part 24) RA :2019	
		Total Dissolve Solids	IS 3025 (Part 16) RA :2023	
		Total Hardness	IS 3025 (Part 21) RA :2019	
		Total Suspended Matter	IS 3025 (Part 17) RA :2022	
		Residual Chlorine	IS 3025 (Part- 26) RA :2019	
		Inorganic Matter	IS: 3025 (Part 18) RA :2022	
		Organic Matter	IS:3025 (Part 18) RA :2022	

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Building Material

1	Aggregate (Coarse)	10% Fines Value	IS 2386 (Part 4) 1963 RA-2021
		Abrasion Value		
		Crushing Value		
		Elongation Index	IS 2386 (Part 1) 1963 RA-2021	
		Flakiness Index		
		Impact Value	IS 2386 (Part 4) 1963 RA-2021	
		Sieve Analysis	IS 2386 (Part- 1) 1963 RA-2021	
		Soundness by Na ₂ SO ₄ /MgSO ₄	IS 2386 (Part 5) 1963 RA-2021	
		Specific Gravity	IS 2386 (Part 3) 1963 RA-2021	
		Unit weight & voids (Bulk Density)		
		Water Absorption		
Stripping Value	IS 6241 -1971 RA-2013			
2	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part- 1) 1963 RA-2016
		Soundness by Na ₂ SO ₄ /MgSO ₄	IS 2386 (Part 5) 1963 RA-2016
		Specific Gravity	IS 2386 (Part 3) 1963 RA-2016	
		Water Absorption		
3	Bituminous Mix	Binder Content	ASTM-D 2172 -2011

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
4	Bitumen	Penetration	IS 1203:2022
		Softening Point	IS 1205:2022	
		Solubility in Trichloroethylene	IS 1216:1978 RA: 2019	
5	Cement (OPC/PPC/White Cement)	Compressive Strength	IS 4031(Part-6):1988 RA: 2019
		Consistency	IS 4031 (Part 4) 1988 RA: 2019	
		Density	IS 4031 (Part 11) 1988 RA: 2019	
		Fineness by Air Permeability	IS 4031 (Part 2) 1988 RA: 2018	
		Setting Time	IS 4031 (Part 5) 1988 RA: 2019	
		Soundness by Autoclave	IS 4031 (Part 3) 1988 RA: 2019	
		Soundness by Le-Chatelier		
6	Bricks (Burnt Clay, Fly Ash, Cement)	Compressive Strength	IS 3495 (Part 1 to 4) - 2019
		Efflorescence		
		Water Absorption		
7	Concrete	Accelerated testing for concrete for Compressive strength	IS 9013-1978 RA: 2018
		Compressive Strength of Cube	IS 516(P-1/SEC-1): 2021	
		Workability by Slump	IS 1199 RA: 2018	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Flexural Strength	IS 516(P-1/SEC-1): 2021	
		Compressive Strength of concrete core	IS 516(P-4) : 2018	
8	Paver Block	Compressive Strength	IS 15658: 2021
		Water Absorption		
		Flexural Strength		
		Dimension		
9	Metal & Alloys (Steel, Copper, Zinc, Aluminium, Brass, Nicle) Bars, Sheet, Pipes, Plats, Wires	Elongation	IS 1608 (Part 1) 2018
		Tensile Strength		
		Weight per Meter		
		Yield Stress		
		Bend & Re-band		
10	Rock, Natural Stone, Marble, Granite, Engineered Stone, Slab	Compressive Strength of Rock	IS 1121 (Part 1) RA-2013
		Flexural Strength		
		Water Absorption		
		Density		
		Specific Gravity		
		Porosity		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
11	Soil	Atterberg's Limit (Liquid Limit)	IS 2720 (Part 5) RA 2020
		Atterberg's Limit (Plastic Limit)		
		California Bearing Ratio	IS 2720 (Part 16)RA 2021	
		Direct Shear Test	IS 2720 (Part- 13) RA 2021	
		Free Swell Index	IS 2720 (Part 40) RA 2021	
		Moisture Content	IS 2720 (Part 2) RA 2020	
		Particle Size Distribution	IS 2720 (Part- 4) RA 2020	
		Procter Test Heavy Compaction	IS 2720 (Part- 8) RA 2020	
		Procter Test Light Compaction	IS 2720 (Part- 7) RA 2021	
		Specific Gravity	IS 2720 (Part 3) (Sec I& II) RA 2021	

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Non-Destructive Testing (At Site)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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1	Cement Concrete Structure	Ultrasonic Pulse Velocity	IS 516(P-5/SEC-1): 2018
		Rebound Hammer	IS 516(P-5/SEC-4): 2020

*It is amended copy of the original scope, being issued on account of change in name of the laboratory.

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