

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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



SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 118)

Validity

19.01.2024 to 18.01.2026

Amended on: N/A

Chemical Testing (Laboratory Based)

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

1	Admixture	Ash Content	IS 9103 : 1999 (RA 2018)	----
		Dry Material Content		
		pH		
		Relative Density		
		Chloride	IS 6925 : 1973 (RA 2018)	
		Sulphate	IS 4032 : 1985(RA 2019)	
2	Hardened Concrete / Mortar	Acid Soluble Sulphate as SO ₃	BS 1881 Part 124 : 2015	----
		Chloride	IS 14959 Part 2:2001 (RA 2021)	
		pH	IS 2720 Part 26 : 1987 (RA 2021)	
		Chloride	BS 1881 Part 124 : 2015	
3	Coarse Aggregate	Alkali Aggregate Reactivity- Reduction in alkalinity	IS 2386 Part 7 1963 (RA 2021)	----
		Alkali Aggregate Reactivity- Dissolved silica		
		Chloride	BS EN 1744 Part 1 : 2009 + A1:2012	
			IS 14959 Part 2: 2001 (RA 2021)	
		Sulphate	BS EN 1744 Part 1 : 2009 + A1:2012	
		pH	IS 2720 Part 26:1987 (RA 2021)	
		Light Weight pieces (Coal and Lignite)	IS 2386 Part 2 1963 (RA 2021)	
		Soundness - MgSO ₄	IS 2386 Part 5- 1963 (RA2021)	
		Soundness –Na ₂ SO ₄		

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4	Fine Aggregate	Alkali Aggregate Reactivity- Reduction in alkalinity	IS 2386 Part 7 1963 (RA 2021)	----
		Alkali Aggregate Reactivity- Dissolved silica		
		Chloride	BS EN 1744 Part 1 : 2009 + A1:2012	
			IS 14959 Part 2: 2001 (RA 2021)	
		Sulphate	BS EN 1744 Part 1 : 2009 + A1:2012	
		PH	IS 2720 Part 26: 1987 (RA 2021)	
		Organic Impurity	IS 2386 Part 2 1963 (RA 2021)	
		Light Weight pieces (Coal and Lignite)		
		Soundness - MgSO4	IS 2386 Part 5 – 1963 (RA 2021)	
Soundness –Na2SO4				
Group: Water				
1	Water for Construction Purpose	Acidity	IS 3025 Part 22: 1986 (RA 2019)	----
		Alkalinity	IS 3025 Part 23 : 2023	
		Chloride	IS 3025 Part 32: 1988 (RA 2019)	
		Inorganic Impurities(Fixed Solids)	IS 3025 Part 18 : 2022	
		Organic Impurities(Volatile Solids)	IS 3025 Part 18 : 2022	
		pH	IS 3025 Part 11 : 2022	
		Sulphate (SO3)	IS 3025 Part 24 Sec1:2022	
		Total Hardness(CaCo3)	IS 3025 Part 21: 2009 (RA 2019)	
		Total Suspended Solid	IS 3025 Part 17 : 2022	
		Total Dissolve Solid	IS 3025 Part 16 : 2023	

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Metal & Alloys

1	Ferrous Alloy - Carbon Steel & Low Alloy Steel	Carbon	IS 228 Part 1: 1987 (RA 2018)	----
		Manganese	IS 228 Part 2: 1987 (RA 2018)	
		Phosphorous	IS 228 Part 3: 1987 (RA 2018)	
		Sulphur	IS 228 Part 9: 1989 (RA 2018)	
		Silicon	IS 228 Part 8: 1989 (RA 2019)	

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
Building Materials				
1	Coarse Aggregate	Crushing Value	IS 2386Part 4: 1963 (RA:2021)	----
		Elongation Index	IS 2386 Part 1 :1963 (RA:2021)	
		Flakiness Index	IS 2386 Part 1: 1963 (RA:2021)	
		Impact Value	IS 2386 Part 4: 1963 (RA:2021)	
		Size & Grading, 4.75to 80 mm	IS 2386 Part 1: 1963 (RA:2021)	
		Water Absorption	IS 2386 Part 3 – 1963 (RA:2021)	
		Specific Gravity	IS 2386 Part 3 – 1963 (RA:2021)	
		10 % fine value	IS 2386 Part 4 – 1963 (RA:2021)	
		Bulk Density(Loose &Rodded)	IS 2386 Part 3 – 1963 (RA:2021)	
2	Fine Aggregate	Bulk Density(Loose &Rodded)	IS 2386 Part 3 – 1963 (RA 2021)	----
		Deleterious Materials – Particle finer than 75micron	IS 2386 Part 1 – 1963 (RA2021)	
		Moisture Content	IS 2386 Part 3- 1963 (RA 2021)	
		Sieve Analysis Test sieve	IS 2386 Part 1- 1963 (RA 2021)	
		Specific Gravity	IS 2386 Part 3- 1963 (RA 2021)	
		Water Absorption	IS 2386 Part 3- 1963 (RA 2021)	
3	Hardened Concrete	Split tensile strength	IS 516Part 1/Sec 1-2021	----
4	Hardened Concrete Beam	Flexural Strength	IS 516Part 1/Sec 1-2021	----

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5	Hardened Concrete Core	Compressive Strength	IS 516Part 4 - 2018	----
6	Hardened Concrete Cube	Compressive Strength	IS 516Part 1/Sec 1 -2021	----
		Compressive Strength by ACT	IS 9013: 1978	----
7	Hardened Concrete Cylinder	Compressive Strength	IS 516Part 1/Sec 1 -2021	----
8	Autoclaved Cellular Concrete Blocks	Dimension – Length	IS 2185Part 3 – 1984 (RA 2020)	----
		Dimension - Width	IS 2185Part 3 – 1984 (RA 2020)	
		Dimension - Height	IS 2185Part 3 – 1984 (RA 2020)	
		Block Density	IS 6441 Part 1 - 1972 (RA 2022)	
		Compressive Strength	IS 6441 Part 5 - 1972 (RA 2022)	
		Drying Shrinkage	IS 6441 Part 2 - 1972 (RA 2022)	
		Moisture Content	IS 6441 Part 1 - 1972 (RA 2022)	
9	Burnt Clay Brick&Fly ash Bricks	Compressive strength	IS 3495 Part 1 – 2019	----
		Dimension - Height	IS 1077 - 1992 (RA 2021)	
		Dimension - Length	IS 1077 - 1992 (RA 2021)	
		Dimension - Width	IS 1077 - 1992 (RA 2021)	
		Efflorescence	IS 3495 Part 3 – 2019	
		Water Absorption	IS 3495 Part 2 – 2019	
10	Concrete	Rapid Chloride Ion Penetration Test (RCPT)	ASTM C 1202 - 2022	----
		Depth of penetration of water under pressure (WPT)	IS 516 Part 2/Sec 1 -2018	
		Initial Surface Absorption Test(ISAT)	IS 516 Part 2/Sec 2 -2020	

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Mechanical Testing (Laboratory Based)

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11	Paver Block	Compressive Strength	IS 15658 - 2021(Annex-D)	----
		Dimension – Length	IS 15658 - 2021(Annex-B)	
		Dimension - Thickness	IS 15658 - 2021(Annex-B)	
		Dimension – Width	IS 15658 – 2021(Annex-B)	
		Split tensile test	IS 15658 – 2021(Annex-F)	
		Plan Area	IS 15658 - 2021(Annex-B)	
		Water Absorption	IS 15658 - 2021(Annex-C)	
12	Solid Concrete Blocks	Block Density	IS 2185 Part 1 - 2005 (RA 2020)(ANNEX-C)	----
		Compressive Strength	IS 2185 Part 1 – 2005 (RA 2020) (ANNEX - D)	
		Dimension - Height	IS 2185 Part 1 – 2005 (RA 2020) (ANNEX-B)	
		Dimension - Length	IS 2185 Part 1 - 2005 (RA 2020) (ANNEX-B)	
		Dimension - Width	IS 2185 Part 1 - 2005 (RA 2020) (ANNEX-B)	
		Drying Shrinkage	IS 2185 Part 1 - 2005 (RA 2020) (ANNEX-F)	
		Moisture Movement	IS 2185 Part 1 - 2005 (RA 2020) (ANNEX-G)	
		Water Absorption	IS 2185 : Part 1 – 2005 (RA 2020) (ANNEX-E)	
Group: Mechanical Properties of Materials				
1	High Strength Steel Bar	Re - bend Test	IS 1786 : 2008 RA : 2018	----
2	Steel Plates, Chequered Plates, Hollow Section, High Strength Steel Bar, Steel Tubes, Channel, Angles, Reinforced Coupler	Bend Test	IS 1599 : 2023	
		Ultimate Tensile Strength	IS 1608 Part 1: 2022	
		% Elongation		
		0.2 % Proof Stress		
		Reduction in Area	IS 1786 : 2008 (RA:2018)	
		Weight per meter area		
Yield Strength	IS 1608 Part 1:2022			

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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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Group: Reinforced Concrete Structure (NDT)

1	Concrete	Carbonation Depth of concrete	IS 516 Part 5 Sec 3: 2021	----
		Cover Depth	BS 1881 Part 204: 1988	
		Crack depth Measurement by Ultrasonic Pulse Velocity Test	IS 516 Part 5 Sec 1: 2018	
		Half Cell Potentials of Uncoated Reinforcing Steel in Concrete	IS 516 Part 5 Sec 2: 2021	
		Rebound Hammer Test	IS 13311 Part 2 : 1992 RA: 2018	
		Rebound Hammer Test	IS 516 Part 5 Sec 4: 2020	
		Ultrasonic pulse velocity test method	IS 516 Part 5 Sec 1: 2018	

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