

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Aadvik National Research & Test Center

*Indri-Biana Main Road, Near Water Canal, Village Biana, Tehsil- Indri,
Karnal-132054, Haryana, 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 to the above standard &
any other requirements specified by QAI.*



QAI/CIA/TL/2024/0078

Valid from: 28 September 2024

Valid until: 27 September 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
1.	Cement (OPC/PPC)	Fineness test by Dry Sieving	IS 4031 (Part 1):1996 (RA 2021)
		Consistency Test	IS 4031 (Part 4):1988 (RA 2019)
		Setting time 1) Initial 2) Final	IS 4031 (Part 5):1988 (RA 2019)
		Soundness by Le-Chatelier Test Expansion Method	IS 4031 (Part 3):1988 (RA 2019) Clause.5
		Soundness by-Autoclave Expansion Method	IS 4031 (Part 3):1988 (RA 2019)
		Density	IS 4031 (Part 11):1988 (RA 2019)
		Fineness by Blaine's Air Permeability	IS 4031 (Part 2):1999 (RA 2018)
		Dry Shrinkage	IS 4031 (Part 10) (RA 2019)
		Compressive Strength at 3 Day	IS 4031 (Part 6):1988 (RA 2019)
		Compressive Strength at 7 Day	IS 4031 (Part 6):1988 (RA 2019)
		Compressive Strength at 28 Day	IS 4031 (Part 6):1988 (RA 2019)
		Transverse Strength	IS 4031 (Part 8):1988 (RA 2019)
2.	Flyash/Pulverize fuel ash	Density	IS 4031 (Part 11):1988 (RA 2019)
		Fineness by Blaine's Air Permeability	IS 1727:1967 (RA 2018)
		Compressive Strength at 28 Day	IS 1727:1967 (RA 2018)
		Lime reactivity-Av Compressive Strength	IS 1727:1967 (RA 2018)
		Particle retained on 45 Micron	IS 1727:1967 (RA 2018)
Soundness by Autoclave	IS 4031 (Part 3):1988 (RA 2018)		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
3.	Coarse Aggregate/Boulders	10% Fine Value	IS 2386 (Part 4):1963 (RA 2021)
		Clay Lumps	IS 2386 (Part 2):1963 (RA 2021)
		Coal and Lignite	IS 2386 (Part 2):1963 (RA 2021)
		Los Angles Abrasion Value	IS 2386 (Part 4):1963 (RA 2021)
		Soundness Test Using (Na ₂ SO ₄ , MgSO ₄)	IS 2386 (Part 5):1963 (RA 2021)
		75 Micron Passing Materials	IS 2386 (Part 1):1963 (RA 2021)
		Bulk Density	IS 2386 (Part 3):1963 (RA 2021)
		Crushing Value	IS 2386 (Part 4):1963 (RA 2021)
		Deleterious Materials	IS 2386 (Part 1 & Part 2):1963 (RA 2021)
		Elongation Index	IS 2386 (Part 1):1963 (RA 2021)
		Flakiness Index	IS 2386 (Part 1):1963 (RA 2021)
		Combined Flakiness & Elongation Index	IS 2386 (Part 1):1963 (RA 2021)
		Impact Value	IS 2386 (Part 4):1963 (RA 2021)
		Sieve Analysis (2.36 mm to 80mm)	IS 2386 (Part 1):1963 (RA 2021)
		Specific Gravity	IS 2386 (Part 3):1963 (RA 2021)
Stripping Value	IS 6241:1971 (RA2017)		
Water Absorption	IS 2386 (Part 3):1963 (RA 2021)		
4.	Fine Aggregate	Bulk Density	IS 2386 (Part 3):1963 (RA 2021)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
		Clay Lumps	IS 2386 (Part 2):1963 (RA 2021)
		Deleterious Material	IS 2386 (Part 1 & Part 2):1963 (RA 2021)
		Material Finer than 75 micron Sieve	IS 2386 (Part 1):1963 (RA 2021)
		Organic Impurities	IS 2386 (Part 1):1963 (RA 2021)
		Water Absorption	IS 2386 (Part 3):1963 (RA 2021)
		Bulking of Sand	IS 2386 (Part 3):1963 (RA 2021)
		Coal and Lignite	IS 2386 (Part 2):1963 (RA 2021)
		Organic Impurities	IS 2386 (Part 1):1963 (RA 2021)
		Soundness Test using (NaSO ₄ , Mg SO ₄)	IS 2386 (Part 5):1963 (RA 2021)
		Sieve Analysis (10mm to 0.075 mm)	IS 2386 (Part 1):1963 (RA 2021)
		Slit Content	IS 2386 (Part 3):1963 (RA 2021)
		Specific Gravity	IS 2386 (Part 3):1963 (RA 2021)
		Measuring mortar making properties of fine aggregate	IS 2386 (Part 3):1963 (RA 2021)
5.	Building Bricks/ Fly Ash Bricks/Burnt Clay Bricks	Dimension (Height)	IS 1077:1992 (RA 2021)
		Dimension (Length)	IS 1077:1992 (RA 2021)
		Dimension (Width)	IS 1077:1992 (RA 2021)
		Compressive Strength	IS 3495 (Part 1):2019
		Efflorescence Test	IS 3495 (Part 3):2019
		Water Absorption	IS 3495 (Part 2):2019
		Warpage	IS 3495 (Part 4):2019

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
6.	Pre- Casted Blocks (Paver Block)	Abrasion Resistance mm ³ (Ind./Avg.)	IS 15658:2021
		Colour and Texture	IS 15658:2021
		Dimensions-Arris/Chamfer	IS 15658:2021
		Dimension Aspect Ratio	IS 15658:2021
		Dimension Length	IS 15658:2021
		Dimension Thickness	IS 15658:2021
		Dimension Width	IS 15658:2021
		Flexural Strength Mpa (Ind/Avg)	IS 15658 Annex G:2021
		Flexural Strength-Breaking Load	IS 15658 Annex G:2021
		Dimensions-Plane Area Asp mm ²	IS 15658:2021
		Ratio of wearing Face Area and Plane Area ASW/ASP	IS 15658:2021
		Dimensions-Squareness (mm)	IS 15658:2021
		Tensile Splitting Strength Mpa (Ind /Avg)	IS 15658 Annex F:2021
		Tensile Splitting Strength-Failure Load per unit length	IS 15658 Annex F:2021
		Dimension Thickness of Wearing Layer mm	IS 15658:2021
		Dimension -Wearing Face Area mm ²	IS 15658:2021
		Compressive Strength	IS 15658 Annex D: 2021
Water Absorption	IS 15658 Annex C: 2021		
Freeze-Thaw Durability	IS 15658:2021		

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
		Visual Inspection	IS 15658:2021
7.	Tiles Cement Concrete Flooring Tiles (Plain Cement/Plain Coloured/ Terrazzo)	Dimension Length	IS 1237:2012 (RA 2022)
		Flatness of the Tile Surface	IS 1237:2012 (RA 2022)
		Perpendicularity	IS 1237:2012 (RA 2022)
		Resistance to wear	IS 1237:2012 (RA 2022)
		Straightness	IS 1237:2012 (RA 2022)
		Dimension Thickness of Wearing Layer	IS 1237:2012 (RA 2022)
		Water Absorption	IS 1237:2012 (RA 2022)
		Wet Transverse Strength	IS 1237:2012 (RA 2022)
		Dimension Thickness	IS 1237:2012 (RA 2022)
		Dimension Width	IS 1237:2012(RA 2022)
8.	Tile Chequered Cement Concrete tiles	Dimension Length	IS 13801:2013 (RA 2018)
		Flatness of the tile surface	IS 13801:2013 (RA 2018)
		Perpendicularity	IS 13801:2013 (RA 2018)
		Resistance to wear	IS 13801:2013 (RA 2018)
		Straightness	IS 13801:2013 (RA 2018)
		Dimension Thickness of Wearing Layer	IS 13801:2013 (RA 2018)
		Water Absorption	IS 13801:2013 (RA 2018)
		Wet Transverse Strength	IS 13801:2013 (RA 2018)
		Dimension Thickness	IS 13801:2013 (RA 2018)
		Dimension Width	IS 13801:2013 (RA 2018)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
9.	Concrete Cubes	Compressive Strength of Concrete cubes	IS 516 (Part 1/Sec 1):2021
10.	Concrete Core	Compressive Strength of Concrete Cores	IS 516 (Part 4):2018
11.	Concrete Mix	Slump	IS 1199:1959 (RA 2018)
12.	Bitumen	Softening Point	IS 1205:2022
		Penetration of Bitumen	IS 1203:2022
		Ductility Test	IS 1208:1978, Amend.2
		Flash /Fire Point	IS 1209:2021
		Viscosity at 50°C	IS 3117:2004 (RA 2019)
		Binder Content	ASTM D 2172-95
		Marshal Stability	ASTM D 1559-76
		Specific Gravity	IS 1202:1978
		Solubility in Trichloroethylene	IS 1216:1978
13.	Clay & Soils (Soils, Granular material & Bentonite clay) Clay & Soils (Soils, Granular material & Bentonite clay)	California Bearing Ratio (CBR)	IS 2720 (Part 16):1987 (RA 2021)
		Grain Size Distribution	IS 2720 (Part 4):1985 (RA 2020)
		Light Compaction (MDD) (OMC)	IS 2720 (Part 7):1980 (RA 2021)
		Heavy Compaction (MDD) (OMC)	IS 2720 (Part 8):1983 (RA 2020)
		Plastic Limit	IS 2720 (Part 5):1985 (RA 2020)
		Liquid Limit	IS 2720 (Part 5):1985 (RA 2020)
		Water Content	IS 2720 (Part 2):1973 (RA 2020)
		Shrinkage Factors	IS 2720 (Part 6):1972 (RA 2021) Amd.1

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		Specific Gravity (Fine Grained)	IS 2720 (Part 3/Sec-1):1980 (RA 2021)
		Unconfined Compressive Strength	IS 2720 (Part 10):1991 (RA 2020)
		Plasticity Index	IS 2720 (Part 5):1985 (RA 2020)
		Permeability	IS 2720 (Part 15):1965 (RA 2021)
		Direct Shear	IS 2720 (Part 13):1986

