

Quality And Accreditation Institute

Centre for International Accreditation



QAI CIA is an ILAC MRA Signatory

Certificate of Accreditation

LUMEN Ltd

*KG 607 ST 24, Kimihurura- Gasabo,
Kigali, Rwanda*

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/2026/0186

Valid from: 21 August 2026

Valid until: 20 August 2028

A handwritten signature in black ink, appearing to read 'B. Rana'.

A handwritten signature in black ink, appearing to read 'Vikram Kumar'.

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
1.	Soil	Sieve Analysis	AASHTO T88
2.		Natural moisture content	AASHTO T265
3.		Atterberg limit	AASHTO T89, T90, M145
4.		Linear shrinkage	ASTM D427
5.		Modified Proctor	AASHTO T180, Method D
6.		Shear Strength Tests (Total Stress)	BS 1377-7
7.		Direct shear test	ASTM D3080
8.		Maximum dry density (MDD)	ASTM D698 AASHTO T99
9.		Consolidation	ASTM D2435-04
10.		CBR (Soaked)	AASHTO T193
11.		CBR (Unsoaked)	AASHTO T193
12.		Permeability	AASHTO T215
13.		Drilling Test- Diamond core drilling for soil	AASHTO T225

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
14.		Triaxial Test- Consolidated Drained (CD) Triaxial Compression	ASTM D7181
15.	Soil	Triaxial Test- Consolidated Undrained (CU)	ASTM D4767-11
16.		Triaxial Test- Unconsolidated- Undrained (UU)	ASTM D2850-23



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
1.	Coarse Aggregates	Los Angeles Abrasion Test (LAA)	AASHTO T96 ASTMC131
2.		Flakiness Index (FI)	ASTM D4791
3.		Aggregates crushing value (ACV)	BS 812 Part 110:1990
4.		Specific gravity and water absorption	AASHTO T85
5.		Sieve Analysis	AASHTO T27
6.		Elongation index	ASTM D4791 BS 812-125
7.	Fine Aggregates	Sieve analysis	AASHTO T27
8.		Specific gravity and water absorption	AASHTO T84/85 ASTM C128
9.		Soundness	AASHTO T104
10.	Bitumen	Penetration Test	AASHTO T49
11.		Softening point	ASTM D 36-70



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
12.	Bitumen	Relative density	ASTM 70-08
13.		Ductility test	AASHTO T51
14.		Flash point	AASHTO M20-70
15.		Viscosity Test	AASHTO T316
16.		Loss on heat	AASHTO T47
17.	Asphalt	Bitumen Content	AASHTO T308
18.	Asphalt	Extraction test	AASHTO T164
19.		Bulk S.G of compacted mix	ASTM D2726 AASHTO T166
20.		Air voids, %	ASTM D3203 AASHTO T269
21.		VMA, %	AASHTO R35
22.		VFA, %	AASHTO M323 & R35
23.		Stability and Flow	ASTM D6927 AASHTO T245
24.		Maximum density	ASTM D2041

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
25.	Concrete	Compressive Concrete Strength	BS 1881: Part 116

Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials- Reinforced Concrete Structures		
1.	Concrete/Reinforced Concrete Structures	Rebound Hammer Test	ASTM C805

