CERTIFICATE OF ACCREDITATION

RANKIN ENGINEERING CONSULTANTS - ZAMBIA

Company Registration No. 21082

Facility Accreditation Number: TEST-3 0004

is a SADCAS accredited Testing Laboratory provided that all SADCAS conditions are complied with

This certificate is valid as per the scope stated in the accompanying schedule of accreditation,

Annexure "A", bearing the above accreditation number for

CIVIL ENGINEERING

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and SADCAS serves as the basis for the recognition of SADCAS by SADC Member States as a multi-economy accreditation body

Eve C Gadzikwa
SADCAS Chief Executive Officer

Date of renewal of Accreditation 04 September 2023 Effective Date (Issue No: 1): 04 September 2023 Certificate Expires: 03 September 2028



Zambia

Zambia

ANNEXURE A

SCHEDULE OF ACCREDITATION

CIVIL ENGINEERING

Laboratory Accreditation Number: TEST-3 0004 (ISO/IEC 17025:2017)

<u>Permanent Address of Laboratory</u> <u>Technical Signatories</u> : Mr K Malata (All methods)

Rankin Engineering Consultants Mr B Zulu (All methods)

Rankin House Mr C Mukuka (All methods)
11038 Chozi Road Mr E Tembo (All methods)

Northmead
Lusaka

Postal Address: Nominated Representative : Ms T Phiri

PO Box 50566
Lusaka

Tel : +260 211 290 085 | Issue No : 02

 Cell
 : +260 977 758800
 Date of Issue
 : 04 March 2025

 Fax
 : +260 211 290562
 Expiry Date
 : 03 September 2028

Email : tphiri@rankinengineering.com

MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Aggregates	Particle Size Analysis by Sieving Aggregate Crush Value (ACV) and 10% FACT Values of Coarse Aggregates	SANS 3001-AG: 2014 Part AG1 SANS 3001-AG: 2012 Part AG10
	Determination of the Flakiness of Coarse Aggregates	SANS 3001-AG4: 2023 Part AG4
Asphalt	Determination of Bulk Density and Void Content of Compacted Asphalt	SANS 3001-AS10:2011 Part AS10
Bitumen and Bituminous Binders	Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test)	ASTM D2872-22
	Bitumen and Bituminous Binders – Determination of Need Penetration	BS EN 1426:2023
	Viscosity Determination of Asphalt at Elevated Temperatures using a Rotational Viscometer	ASTM D 4402-15
	Softening Point of Bitumen (Ring - and - Ball Apparatus)	ASTM D36/D36M – 14

Original date of accreditation: 25 January 2019



ANNEXURE A

Laboratory Accreditation No: TEST-3 0004 (ISO/IEC 17025:2017)

Issue No: 02

Date of Issue: 04 March 2025 Date of Expiry: 03 September 2028

MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Gravel	Wet Preparation and Particle Size Analysis	SANS 3001-GR1:2022 Part GR1
	Determination of the California Bearing Ratio	SANS 3001- GR40:2023 Part GR40
	Determination of Moisture Content by Oven Drying	SANS 3001- GR20:2010 Part GR20
	Determination of the Maximum Dry Density and Optimum Moisture Content	SANS 3001- GR30:2024 Part GR30
	Determination of the Flow Curve Liquid Limit	SANS 3001- GR12:2013 Part GR12
	Determination of the One-Point Liquid Limit, Plastic Limit, Plasticity Index and Linear Shrinkage	SANS 3001- GR10:2013 Part GR10
Concrete	Compressive Strength of Hardened Concrete	SANS 5863:2006

Original date of accreditation: 25 January 2019 Page 2 of 2

Pinkie J Malebe SADCAS Technical Manager