

**SADCAS**

SOUTHERN AFRICAN DEVELOPMENT COMMUNITY



## 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**

**ANNEXURE A**  
**SCHEDULE OF ACCREDITATION**  
**CIVIL ENGINEERING**

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

<p><b><u>Permanent Address of Laboratory</u></b> Rankin Engineering Consultants Rankin House 11038 Chozi Road Northmead Lusaka Zambia</p> <p><b><u>Postal Address:</u></b> PO Box 50566 Lusaka Zambia</p> <p><b><u>Tel</u></b> : +260 211 290 085 <b><u>Cell</u></b> : +260 977 758800 <b><u>Fax</u></b> : +260 211 290562 <b><u>Email</u></b> : <a href="mailto:tphiri@rankinengineering.com">tphiri@rankinengineering.com</a></p>	<p><b><u>Technical Signatories</u></b> : Mr K Malata (All methods) Mr B Zulu (All methods) Mr C Mukuka (All methods) Mr E Tembo (All methods)</p> <p><b><u>Nominated Representative</u></b> : Ms T Phiri</p> <p><b><u>Issue No</u></b> : 02 <b><u>Date of Issue</u></b> : 04 March 2025 <b><u>Expiry Date</u></b> : 03 September 2028</p>	
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
<p>Aggregates</p> <p>Asphalt</p> <p>Bitumen and Bituminous Binders</p>	<p>Particle Size Analysis by Sieving Aggregate Crush Value (ACV) and 10% FACT Values of Coarse Aggregates</p> <p>Determination of the Flakiness of Coarse Aggregates</p> <p>Determination of Bulk Density and Void Content of Compacted Asphalt</p> <p>Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test)</p> <p>Bitumen and Bituminous Binders – Determination of Need Penetration</p> <p>Viscosity Determination of Asphalt at Elevated Temperatures using a Rotational Viscometer</p> <p>Softening Point of Bitumen (Ring - and - Ball Apparatus)</p>	<p>SANS 3001-AG: 2014 Part AG1 SANS 3001-AG: 2012 Part AG10</p> <p>SANS 3001-AG4: 2023 Part AG4</p> <p>SANS 3001-AS10:2011 Part AS10</p> <p>ASTM D2872-22</p> <p>BS EN 1426:2023</p> <p>ASTM D 4402-15</p> <p>ASTM D36/D36M – 14</p>

## 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

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**Pinkie J Malebe**  
**SADCAS Technical Manager**