

# CERTIFICATE OF ACCREDITATION

## ZAMBIA METROLOGY AGENCY

*Established by The Metrology Act No. 6 of 2017*

**Facility Accreditation Number: CAL-9 004**

is a SADCAS accredited Calibration 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

## VOLUME METROLOGY

*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*

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**Ms Eve C Gadzikwa**  
**SADCAS Chief Executive Officer**

**Date of Renewal of Accreditation: 10 October 2023**  
**Effective Date (Issue No: 1): 10 October 2023**  
**Certificate Expires: 09 October 2028**

## ANNEXURE A

### SCHEDULE OF ACCREDITATION

#### VOLUME METROLOGY

Laboratory Accreditation Number: **CAL-9 004 (ISO/IEC 17025:2017)**

<p><b>Permanent Address of Laboratory</b> Zambia Metrology Agency Plot 4526, Lechwe House Freedom Way, South End Lusaka Zambia</p> <p><b>Postal Address</b> P O Box 30989 Lusaka Zambia</p> <p><b>Tel</b> : +260 21 122 2294 <b>Cell</b> : +260 97 777 6062 <b>Fax</b> : +260 21 122 2297 <b>Email</b> : <a href="mailto:Natasha.sichone@zma.org.zm">Natasha.sichone@zma.org.zm</a> <a href="mailto:Mwiya.Nyambe@zma.org.zm">Mwiya.Nyambe@zma.org.zm</a> <a href="mailto:Fredrick.Hamutunda@zma.org.zm">Fredrick.Hamutunda@zma.org.zm</a></p>		<p><b>Technical Signatories</b> : Mr J Chipere (All items)</p> <p><b>Nominated Representative</b> : Mr M Nyambe Ms N M Sichone</p> <p><b>Issue No</b> : 01 <b>Date of Issue</b> : 10 October 2023 <b>Expiry Date</b> : 09 October 2028</p>		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )
3 3.1	Volumetric Measures Piston pipettes	Internal: MOP 052  Reference: SANAS TR 47, R111-1, EURAMET/cg-18/v.04, ISO 8655 -6 and Sartorius WRC 6002-e90121	5 $\mu\text{l}$ to 100 $\mu\text{l}$ 100 $\mu\text{l}$ to 200 $\mu\text{l}$ 200 $\mu\text{l}$ to 1 000 $\mu\text{l}$ 1 000 $\mu\text{l}$ to 10 000 $\mu\text{l}$	0.4 $\mu\text{l}$ 0.6 $\mu\text{l}$ 3.0 $\mu\text{l}$ 30 $\mu\text{l}$

Original date of accreditation: 23 April 2019

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor  $k = 2$ , corresponding to a confidence level of approximately 95%.

## ANNEXURE A

Laboratory Accreditation No: CAL-9 004 (ISO/IEC 17025:2017)

Issue No: 01

Date of Issue: 10 October 2023

Date of Expiry: 09 October 2028

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )
3.2	Laboratory Glassware			
3.2.1	Automated Pipettes	Internal: <i>MOP 052, MOP 051 and MOP 055</i>	1 mℓ to 50 mℓ	0.5 %
3.2.2	Pipettes	Reference: <i>SANAS TR 47, R111-1, EURAMET/cg-18/v.04, ISO 8655-6 and</i>	5 mℓ to 20 mℓ	0.7 %
	Burettes		20 mℓ to 100 mℓ	0.25 %
3.2.3	Flasks	<i>Sartorius WRC 6002-e90121</i>	100 mℓ to 1 ℓ	0.1 %
	Pycnometers		50 mℓ to 100 mℓ	0.5 %
	Metal Measures		1 L to 20 L	0.5 %

Original date of accreditation: 23 April 2019

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor  $k = 2$ , corresponding to a confidence level of approximately 95%.

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