

CERTIFICATE OF ACCREDITATION

ZAMBIA METROLOGY AGENCY

Established by The Metrology Act No. 6 of 2017

Facility Accreditation Number: CAL-8 009

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

MASS 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*

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

MASS METROLOGY

Laboratory Accreditation Number: **CAL-8 009 (ISO/IEC 17025:2017)**

<p>Permanent Address of Laboratory Zambia Metrology Agency Plot 4526, Lechwe House Freedom Way, South End Lusaka Zambia</p> <p>Postal Address P O Box 30989 Lusaka Zambia</p> <p>Tel : +260 21 122 2294 Cell : +260 97 777 6062 Fax : +260 21 122 2297 Email : Natasha.sichone@zma.org.zm Mwiya.Nyambe@zma.org.zm Fredrick.Hamutunda@zma.org.zm</p>		<p>Technical Signatories : Mr L Ngoza (All items) Mr N Shilengwe (All items) Mr J Chipere (All items)</p> <p>Nominated Representative : Mr M Nyambe Ms N M Sichone</p> <p>Issue No : 01 Date of Issue : 10 October 2023 Expiry Date : 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)
1	Mass Pieces	Internal: <i>MOP 002</i> Reference: <i>SANAS - TR 15, OIML R111-1, EURAMET/cg-18, SADCAS TR 15 and SADCAS TR 16</i>	1mg, 2 mg, 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	7 μ g 9 μ g 10 μ g 14 μ g 17 μ g 20 μ g 27 μ g 34 μ g 40 μ g 55 μ g 65 μ g 84 μ g 0,1 mg 0,16 mg 0,33 mg

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-8 009 (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)
1	Mass Pieces	Internal: <i>MOP 002</i> Reference: <i>SANAS -TR 15, OIML R111-1, EURAMET/cg-18, SADCAS TR 15 and SADCAS TR 16</i>	500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0,83 mg 1,7 mg 3,3 mg ,4 mg 16,7 mg 33,4 mg
2	Weighing Instruments <ul style="list-style-type: none"> • Digital self-indicating • Mechanical self-indicating • Semi self-indicating Comparators	Internal: <i>MOP 004 and MOP 005</i> Reference: <i>SANAS -TR 15, OIML R111-1, EURAMET/cg-18, OIML R76, SADCAS TR 15 and SADCAS TR 16</i>	0 g to 5 g 5 g to 100 g 100 g to 200 g 200 g to 1 000 g 1 kg to 2 kg 2 kg to 5 kg 5 kg to 10 kg 10 kg to 20 kg 20 kg to 40 kg 40 kg to 2 000 kg	0,02 mg 0,06 mg 0,12 mg 0,6 mg 2,0 mg 3,0 mg 6,0 mg 15 mg 30 mg 0.015 %
3	On-site calibration for item 2 above			

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%.

Pinkie J Malebe
SADCAS Technical Manager