

# CERTIFICATE OF ACCREDITATION

## ZAMBIA METROLOGY AGENCY

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

**Facility Accreditation Number: CAL-14 005**

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

## TEMPERATURE 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**  
**TEMPERATURE METROLOGY**

**Laboratory Accreditation Number: CAL-14 005 (ISO/IEC 17025:2017)**

<p><b><u>Permanent Address of Laboratory</u></b> Zambia Metrology Agency Plot 4526, Lechwe House Freedom Way, South End Lusaka Zambia</p> <p><b><u>Postal Address</u></b> P O Box 30989 Lusaka Zambia</p> <p><b><u>Tel</u></b> : +260 21 122 2294 <b><u>Cell</u></b> : +260 97 777 6062 <b><u>Fax</u></b> : +260 21 122 2297 <b><u>Email</u></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><u>Technical Signatories:</u></b> : Mr B Fisambo (All items) Mr M Kashweka (Items 2, 5.1, 5.2 and 10) Mr E S Kandeke (Items 2, 5.1, 5.2 and 10) Ms C Mutembo (Items 2, 3, 4, 5.1, 5.2 and 5.3)</p> <p><b><u>Nominated Representative</u></b> : Mr M Nyambe Ms N M Sichone</p> <p><b><u>Issue No</u></b> : 01 <b><u>Date of Issue</u></b> : 10 October 2023 <b><u>Expiry Date</u></b> : 09 October 2028</p>
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ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	
				In-house	Onsite
1.2	Base metal thermocouples	Internal: <i>MOP 261</i> Reference: <i>SADCAS TR 26</i>	-40 °C to 0 °C 0 °C to 100 °C 100 °C to 450 °C	2.0 °C 0.4 °C 1.0 °C	- - -
1.3	Compensation and extension lead	Internal: <i>MOP 262</i> Reference: <i>SADCAS TR 26</i>	0 °C to 70 °C	0.4 °C	0.4 °C
2	Ice Point Reference	Internal: <i>MOP 252</i> Reference: <i>SADCAS TR 26</i>	0 °C	0.05 °C	-
3	Water Triple Point Cell	Internal: <i>MOP 251</i> Reference: <i>SADCAS TR 26</i>	0.01 °C	0.05 °C	-
4	Platinum Resistance Thermometer	Internal: <i>MOP 259</i> Reference: <i>SADCAS TR 26 and DKD-R 5-1</i>	-40 °C to 600 °C	0.06 °C	0.15 °C

## ANNEXURE A

Laboratory Accreditation No: CAL-14 005 (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 ( $\pm$ )	
				In-house	Onsite
5.1	Liquid - in - Glass Thermometer	Internal: <i>MOP 256</i> Reference: <i>SADCAS TR 26</i>	-40 °C to 200 °C	0.13 °C	-
5.2	Digital Thermometers	Internal: <i>MOP 263</i> Reference: <i>SADCAS TR 26, EURAMET cg-8 and DKD-R 5-1</i>	-40 °C to 450 °C	0.06 °C	0.15 °C
5.3	Mechanical (Dial) Thermometer	Internal: <i>MOP 263</i> Reference: <i>SADCAS TR 26, EURAMET cg-8 and DKD-R 5-1</i>	-40 °C to 450 °C	1.0 °C	2.0 °C
10	Furnaces, Ovens, Incubators, Water Baths, Fridges, Freezers	Internal: <i>MOP 257</i> Reference: <i>SADCAS TR 26, EURAMET cg-20, JTM K 08 and DKD-R 5-7</i>	-40 °C to 70 °C	-	0.6 °C
			70 °C to 140 °C	-	1.0 °C
11	On-site Calibration for Items 1.3; 4; 5.2; 5.3 & 10 above				

Original date of accreditation: 23 April 2019

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**Pinkie J Malebe**  
SADCAS Technical Manager