# **CERTIFICATE OF ACCREDITATION**

## **BOTSWANA BUREAU OF STANDARDS (INDUSTRIAL METROLOGY UNIT)**

Established by the Standards Act No. 16 of 1995

Facility Accreditation Number: CAL-14 001

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

Mrs Maureen P Mutasa SADCAS Chief Executive Officer

Date of Renewal of Accreditation: 30 May 2021 Effective Date (Issue No: 1): 30 May 2021 Certificate Expires: 29 May 2026



## **ANNEXURE A**

# **SCHEDULE OF ACCREDITATION**

### **TEMPERATURE METROLOGY**

Laboratory Accreditation Number: CAL-14 001 (ISO/IEC 17025:2017)

**Permanent Address of Laboratory** 

Botswana Bureau of Standards Industrial Metrology Unit Main Airport Road Plot 55745, Block 8

Gaborone Botswana

Botswana

**Postal Address** 

Private Bag BO 48 Gaborone

<u>Tel</u> : +267 390 3200 / 3645651

<u>Cell</u> : +267 71384114 <u>Fax</u> : +267 3903120

**Email** : kajane@bobstandards.bw

**Technical Signatories** 

: Mr K Tshaila (Items 1, 2, 3 & 4)

Mr N Nkgare (All Items)

Nominated Representative : Mr T S Kajane

Issue No : 01

 Date of Issue
 : 30 May 2021

 Expiry Date
 : 29 May 2026

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
1	Thermocouples	Internal: IM/EM/TP06	-30 °C to 250 °C	0.3 °C
	Noble Metals	Reference: SANAS TR 19	250 °C to 1000 °C	5.0 °C
	Base Metals		-30 °C to 250 °C	0.4 °C
			250 °C to 1000 °C	5.0 °C
2	Ice Point Reference	Internal: IM/EM/TP01	0.0 °C	0.02 °C
		Reference: SANAS TR 19		
3	Platinum Resistance	Internal: IM/EM/TP07	-40 °C to 250 °C	0.03 °C
	Thermometers	Reference: SANAS TR 19		
4	Thermometers	Internal: IM/EM/TP02	-30 °C to 250 °C	0.16 °C
	<ul> <li>Liquid-in-glass</li> </ul>	Reference: SANAS TR 19		
	Digital	Internal: IM/EM/TP05	-40 °C to 250 °C	0.03 °C
		Reference: SANAS TR 19	250 °C to 1000 °C	5.0 °C
5	Temperature Installations (Multi-	Internal: IM/EM/TP05	-30 °C to 50 °C	3.0 °C
	locations over time monitoring	Reference: SANAS TR 19		
6	On-site calibration for item 5 above			

Original date of accreditation: 23 March 2016

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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%.

