CERTIFICATE OF ACCREDITATION

TANZANIA BUREAU OF STANDARDS (METROLOGY LABORATORY)

Established by the Standards Act No. 2 of 2009

Facility Accreditation Number: CAL-9 005

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

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

Mrs Pinkie J Malebe For SADCAS Chief Executive Officer

Date of Renewal of Accreditation 16 February 2021 Effective Date (Issue No: 2): 16 February 2021 Certificate Expires: 15 February 2026



ANNEXURE A

SCHEDULE OF ACCREDITATION VOLUME METROLOGY

Laboratory Accreditation Number: CAL-9 005 (ISO/IEC 17025:2017)

Technical Signatories

Permanent Address of Laboratory

Tanzania Bureau of Standards

Metrology Laboratory

Morogoro / Sam Nujoma Road, Ubungo

Dar es Salaam

Tanzania

Mr S H Bussara (All Items)

Ms E E Kamala (All Items) Mrs J E Ishabangazi (All Items)

Ms Z G Juma (Items 2 & 3)

Postal Address

P O Box 9524 Dar es Salaam

Tanzania

Tel

: +255 22 2450206

<u>Cell</u> : +255 784 806 143 <u>Fax</u> : +255 22 245 0959

Email : joseph.mahilla@tbs.go.tz

<u>Nominated Representative</u> : Mr J J Mahilla

Issue No : 02

Date of Issue: 13 December 2022Expiry Date: 15 February 2026

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
4 2: 4 2: 4 2: 4 2: 4 2: 4 2: 4 2: 4 2:				At TBS
1	Piston Pipettes	Internal: MET-VOL-04	5 μθ to 100 μθ	1.0 μ l
		Reference:	100 µl to 250 µl	2.0 μ િ
		Measurement Good	250 µl to 500 µl	4.0 µይ
		Practice Guide No. 69,	500 µl to 1 000 µl	8.0 µℓ
		NPL, UK;	1 000 µl to3 000 µl	20 μિ
		SADCAS TR 19	3 000 µl to 5 000 µl	40 μિ
			5 000 µl to 10 000 µl	60 μ€
2	Glassware	Internal: MET-VOL-01;	1 ml to 5 ml	0.05 mℓ
		MET-VOL-02	5 mℓ to 50 mℓ	0.10 mℓ
		Reference:	50 mℓ to 250 mℓ	0.20 mℓ
		SADCAS TR 19	250 ml to 1000 ml	0.50 mℓ
		ISO 8106-2004(E)	1 000 ml to 5 000 ml	2.0 mℓ
3	Metal Strike Measures	Internal: MET-VOL-01	1 000 ml to 2 000 ml	2.0 mℓ
		Reference: SADCAS TR 19	5 000 mℓ	4.0 mℓ

Original date of accreditation: 04 November 2010

Page 1 of 1

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