

CERTIFICATE OF ACCREDITATION

TANZANIA BUREAU OF STANDARDS (METROLOGY LABORATORY)

Established by the Standards Act No. 2 of 2009

Facility Accreditation Number: CAL-2 002

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

DIMENSIONAL 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

DIMENSIONAL METROLOGY

Laboratory Accreditation Number: **CAL-2 002 (ISO/IEC 17025:2017)**

<u>Permanent Address of Laboratory</u> Tanzania Bureau of Standards Metrology Laboratory Morogoro/Sam Nujoma Road, Ubungo Dar es Salaam Tanzania		<u>Technical Signatories</u> : Mr J M Kadenge (All items) Ms A K Charles (Items 2.2.1, 2.2.3, 2.2.6, 2.3.7, 2.3.9, 6.1.4 & 6.1.8) Mr V W Nyami (Items 2.2.3, 2.3.7, 6.1.1, 6.1.4, 6.1.8) Mr K R Shembilu (Item 6.1.4)		
<u>Postal Address</u> P O Box 9524 Dar es Salaam Tanzania		<u>Nominated Representative</u> : Mr J J Mahilla		
<u>Tel</u> : +255 22 245 0206 <u>Cell</u> : +255 78 480 6143 <u>Fax</u> : +255 22 245 0959 <u>Email</u> : joseph.mahilla@tbs.go.tz		<u>Issue No</u> : 03 <u>Date of Issue</u> : 10 October 2023 <u>Expiry Date</u> : 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 (±)
				At TBS
2.1	LINEAR DIMENSIONS			
2.1.4	Height Gauge	Internal: <i>MET-DIM-08</i> Reference: <i>SADCAS TR 20</i>	0 to 200 mm 200 to 500 mm	11 µm 25 µm
2.2	End Standards			
2.2.1	Gauge Blocks	Internal: <i>MET-DIM-03</i>	0 to 100 mm	0.2 µm
2.2.3	Micrometer Setting Pieces	Internal: <i>MET-DIM-04</i>	100 to 200 mm 0 to 100 mm	1 µm 0.2 µm
2.2.6	Feeler Gauges	Internal: <i>MET-DIM-04</i> Reference: ISO 3650 (E); <i>SADCAS TR 20</i>	100 to 200 mm 0 to 5 mm	1 µm 1 µm
2.3	Line Standards			
2.3.7	Engineers Tape Measure	Internal: <i>MET-DIM-05</i>	0 to 12 m	0.4 mm
2.3.9	Engineers Steel Rule	Internal: <i>MET-DIM-09</i>	0 to 1000 mm	0.2 mm

Original date of accreditation: 04 November 2010

Page 1 of 2

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

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Issue No: 03

Date of Issue: 10 October 2023

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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 (\pm)
6	VARIOUS DIMENSIONAL			
6.1	Hand Instruments			
6.1.1	External Micrometers	Internal: <i>MET-DIM-06</i>	0 to 300 mm	6.0 μ m
6.1.4	Caliper (Electronic and Vernier)	Internal: <i>MET-DIM-01</i>	0 to 200 mm 200 to 500 mm	11 μ m 25 μ m
6.1.8	Dial Gauge	Internal: <i>MET-DIM-02</i> 8.1 - 8.11 Internal: <i>MET-DIM-02</i> 8.12 - 8.19 Reference: <i>SADCAS TR 20</i>	0 to 20 mm 20 to 50 mm 0 to 20 mm 20 to 50 mm	7.0 μ m 9.0 μ m 6.0 μ m 9.0 μ m

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Page 2 of 2

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