

CERTIFICATE OF ACCREDITATION

TANZANIA BUREAU OF STANDARDS (METROLOGY LABORATORY)

Established by the Standards Act No. 2 of 2009

Facility Accreditation Number: CAL-15 001

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

TIME & FREQUENCY 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 TIME & FREQUENCY METROLOGY

Laboratory Accreditation Number: **CAL-15 001 (ISO/IEC 17025:2017)**

<p>Permanent Address of Laboratory Tanzania Bureau of Standards Metrology Laboratory Morogoro / Sam Nujoma Road, Ubungo Dar es Salaam Tanzania</p> <p>Postal Address P O Box 9524 Dar es Salaam Tanzania</p> <p>Tel : +255 22 2450206 Cell : +255 784 806 143 Fax : +255 22 245 0959 Email : joseph.mahilla@tbs.go.tz</p>		<p>Technical Signatories : Mr J Yarrot Mr N J Mkalangohe</p> <p>Nominated Representative : Mr J J Mahilla</p> <p>Issue No : 02 Date of Issue : 13 December 2022 Expiry Date : 15 February 2026</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	Time	Internal: MET-TF-01; MET-TF-03 Reference: SANAS TR 20	1 to 2400 s 2400 to 21600 s	0.07 s 0.9 s
2	Rotational Speed, Tachometer	Internal: MET-TF-04 Reference: SANAS TR 45	0 to 999 rpm 1000 to 9999 rpm 10000 to 100000 rpm	0.2 rpm 1 rpm 4 rpm
3	Centrifuge	Internal: MET-TF-04 Reference: SANAS TR 45	0 to 999.9 rpm 10000 to 10000 rpm	1 rpm 2 rpm

Original date of accreditation: 04 November 2010

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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