

# 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*

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**Mrs Maureen P Mutasa**  
**SADCAS Chief Executive Officer**

**Date of Renewal of Accreditation** 16 February 2021  
**Effective Date (Issue No: 1):** 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><b>Permanent Address of Laboratory</b> Tanzania Bureau of Standards Metrology Laboratory Morogoro / Sam Nujoma Road, Ubungo Dar es Salaam Tanzania</p> <p><b>Postal Address</b> P O Box 9524 Dar es Salaam Tanzania</p> <p><b>Tel</b> : +255 22 2450206 <b>Cell</b> : +255 784 806 143 <b>Fax</b> : +255 22 245 0959 <b>Email</b> : <a href="mailto:joseph.mahilla@tbs.go.tz">joseph.mahilla@tbs.go.tz</a></p>	<p><b>Technical Signatories</b> : Mr J Yarrot (Item 1) Mr NJ Mkalangohe (Item 1.2)</p> <p><b>Nominated Representative</b> : JJ Mahilla</p> <p><b>Issue No</b> : 01 <b>Date of Issue</b> : 16 February 2021 <b>Expiry Date</b> : 15 February 2026</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 ( $\pm$ )
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
1.2	Rotational Speed, Tachometer and Centrifuge	Internal: MET-TF-04 Reference: SANAS TR 45	0 to 5000 rpm 5000 to 10000 rpm 10000 to 50000 rpm 50000 to 100000 rpm	0.2 rpm 0.5 rpm 4 rpm 5 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%.

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**Pinkie J Malebe**  
SADCAS Technical Manager