CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

NATIONAL METROLOGY INSTITUTE OF SOUTH AFRICA

FORCE CALIBRATION LABORATORY

Accreditation Number: **1602**

is a South African National Accreditation System accredited Calibration Laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation Annexure "A", bearing the above accreditation number for

FORCE METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates

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Mr R Josias
Chief Executive Officer

Effective Date: 10 October 2019
Certificate Expires: 05 October 2024

ANNEXURE A

SCOPE OF ACCREDITATION

FORCE METROLOGY

Accreditation Number: 1602

Permanent Address of Laboratory:
National Metrology Institute of SA
Force Calibration Laboratory
Building 7, CSIR Campus
Meiring Naude Road
Brummeria
0002

Postal Address:
Private Bag X34
Lynwood Ridge
Pretoria
0040

Tel: (012) 947-2781
E-mail: lntatamala@nmisa.org

Technical Signatories: Mr STS Dlamini
Mr J Matosse

Nominated Representative: Ms L Ntatamala

Issue No.: 16
Date of Issue: 26 April 2022
Expiry Date: 05 October 2024

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
4	**FORCE**			
4.1	**Tension**			
4.1.1	Force measuring device	100 N to 1 000 N	0,03 %	Calibration by the application of a deadweight
		2 kN to 200 kN	0,03 %	Calibration by direct comparison with a reference standard
4.2	**Compression**			
4.2.1	Force measuring device	100 N to 1 000 N	0,03 %	Calibration by the application of a deadweight.
		2 kN to 200 kN 200 kN to 1 000 kN 1 000 kN to 5 000 kN	0,03 % 0,04 % 0,08 %	Calibration by direct comparison with a reference standard.
4.3	**Tension and Compression**			
4.3.1	Force measuring device	100 N to 1 000 N	0,03 %	Calibration by the application of a deadweight.
		2 kN to 2 00 kN	0,03 %	Calibration by direct comparison with a reference standard.

Original Date of Accreditation: 01 August 2003

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%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager