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:-

LOADCELL MANUFACTURING AND SERVICES (PTY) LTD
Co. Reg No: 1972/000013/07
TRADING AS
ROUTE CALIBRATION SERVICES

Accreditation Number: **1422**

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

MASS 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

Ms FS Radebe
Interim Acting Chief Executive Officer

Effective Date: 04 June 2021
Certificate Expires: 01 April 2026

ANNEXURE A

SCOPE OF ACCREDITATION

MASS METROLOGY

Accreditation Number: 1422

Permanent Address of Laboratory:
Loadcell Manufacturing and Services (Pty) Ltd
T/A Route Calibration Services
359 Soutter Street
Pretoria West
0183

Postal Address:
P O Box 19104
Pretoria West
0117

Tel: (012) 327-7312/4
Fax: (012) 327-7470
E-mail: admin@routecalibration.co.za

Technical Signatories: Ms S van Vuuren
Mrs C van Vuuren

Nominated Representative: Ms S van Vuuren

Issue No.: 15
Date of Issue: 04 June 2021
Expiry Date: 01 April 2026

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
1	**MASS**			
1.1	**Mass Standard**			
1.1.1	Mass Pieces (Weights < 100kg)	1 mg to 2 g 2 g to 5 g 5 g to 20 g 20 g to 50 g 50 g to 100 g 100 g to 1 kg 1 kg to 20 kg 20 kg to 100 kg	0,12 mg 0,0015 % 0,0008 % 0,0007 % 0,00064 % 0,0006 % 0,0011 % 0,01 %	Calibration using the single substitution method.
1.1.2	(Weights > 100kg)	100 kg to 500 kg	0,01 %	
1.2	**Weighing Equipment**			
1.2.1	Digital Self Indicating	0 g to 10 g 10 g to 1 kg 1 kg to 2 kg 2 kg to 20 kg 20 kg to 80 000 kg	0,08 mg 0,00017 % 0,0017 % 0,0025 % 0,016 %	Evaluation of Linearity, eccentricity and repeatability using standard weights, and where required, make-up weight above 500 kg.
1.2.2	Mechanical Self Indicating			
1.2.5	Weighbridges			
2	On site Calibration Item 1.1 and 1.2			

Original Date of Accreditation: 01 April 2000

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