

# **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:-*

## **NELSON MANDELA UNIVERSITY UYILO TESTING LABORATORY**

Facility Accreditation Number: **T0676**

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

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

### **BATTERY TESTING**

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 quality management system

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

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**Mr M Phaloane**  
**Acting Chief Executive Officer**

**Effective Date: 02 October 2020**  
**Certificate Expires: 06 September 2025**

ANNEXURE A  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0676**

**Permanent Address of Laboratory:**

Nelson Mandela University  
 Uyilo Testing Laboratory  
 Summerstrand Campus North MTL- Building, M033  
 Gardham Avenue  
 Port Elizabeth  
 6001

**Postal Address:**

P O Box 77000  
 Port Elizabeth  
 6031

**Tel:** (041) 504 3608

**Fax:** (041) 504 9123

**E-mail:** Natasha.DeAndrade@mandela.ac.za

**Technical Signatories:**

Dr N Rust (Lead-Acid and Lithium-ion)  
 Prof E Ferg (Lead-Acid)

**Contact Person:**

Ms N de Andrade

**Issue No.:** 06

**Date of Issue:** 02 October 2020

**Expiry Date:** 06 September 2025

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
<b>BATTERY TESTING</b>		
Lead Acid Batteries Automotive	Capacity Check Test	SANS 2:2013
	Reserve Capacity Check Test	SANS 60095-1:2007
	Cranking Performance Test	IEC 60095-1:2018
	Charge Acceptance Test	
	Charge Retention Test	
	Endurance Testing	
	Water Consumption Test	
	Vibration Resistance Test	
Lithium-ion cells and batteries- Stationary applications	Electrolyte Retention Test	
	Discharge performance	IEC 62620:2014
	Charge retention and recovery	
	Cell and battery internal resistance	
Secondary cells and batteries containing alkaline or other non-acid electrolytes- Secondary lithium cells and batteries for portable applications	Endurance	
	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Secondary lithium cells and batteries for portable applications	SANS 61960 ed. 2:2012 IEC 61960 ed.2 2011

Original Date of Accreditation: 07 September 2015

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

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**Accreditation Manager**