

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 17025:2005

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

Mr R Josias
Chief Executive Officer

Effective Date: 07 September 2015
Certificate Expires: 06 September 2020

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

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E-mail: Natasha.Erasmus@mandela.ac.za

Technical Signatories:

Dr N Rust (Lead-Acid and Lithium-ion)

Prof E Ferg (Lead-Acid)

Contact Person:

Ms N Erasmus

Issue No.: 05

Date of Issue: 26 February 2018

Expiry Date: 06 September 2020

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
BATTERY TESTING		
Lead Acid Batteries Automotive	Capacity Check Test	SANS 2:2013
	Reserve Capacity Check Test	SANS 60095-1:2007
	Cranking Performance Test	IEC 60095-1:2006
	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	
	Endurance	

Original Date of Accreditation: 07 September 2015

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager