

# **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:-*

**BEMLAB (PTY) LTD**

**Co. Reg. No.: 1996/006836/07**

Facility Accreditation Number: **T0654**

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

## **CHEMICAL AND MICROBIOLOGY ANALYSIS**

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: 29 June 2020**  
**Certificate Expires: 30 June 2025**

**ANNEXURE A**  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0654**

**Permanent Address of Laboratory:**

Bemlab (Pty) Ltd  
16 Van der Berg Street  
Gant's Industrial, Strand  
Strand  
7131

**Technical Signatories:**

Ms S Mbula ( All Water Chemistry Methods)  
Ms M van Lill (All Methods)  
Mrs S Thomas (All Methods)  
Mr A Pascall (All Chemistry Methods)  
Mr S Salie (All Methods)  
Ms M Ernstzen ( All Microbiology Methods )  
Mr S Sungay (Microbiology SOP 1454  
Chemistry SOP 3102, SOP 3094, SOP  
3104 & SOP 3127)  
Ms B Daniels (SOP 3102, SOP 3094, SOP  
3104, SOP 3225, SOP 3132, SOP 3114,  
SOP 3117, SOP 3113, SOP 3118, SOP  
3115, SOP 3116 & SOP 3119)  
Ms M Page Chemistry (SOP 3135, 3136, 3137,  
3138, 3289, 3777, 3777, 4511  
& Microbiology 1454, 6386)

**Postal Address:**

P O Box 684  
Somerset Mall  
7137

**Nominated Representative:**

Mr A Theron

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**Issue No.:** 10

**Date of Issue:** 10 September 2021

**Expiry Date:** 30 June 2025

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
<b>CHEMICAL</b>		
Soil	Determination of Boron (B)	ICP-OES, Hot water extraction method (3114)
	Determination of Ca, K, Mg, Na	ICP-OES, Ammonium Acetate extraction (3113)
	Determination of P	ICP-OES, Bray I (3116), Bray II (3117), Olsen (3118), extraction
	Determination of S	ICP-OES, Calcium-Phosphate extraction method (3119)
	Determination of pH electrometrically	KCl method (3108)
	Determination of Organic carbon	Walkey – Black method (3107)
	Determination of Titratable acidity	Titrimetric method (3109)
	Determination of Cu, Zn, Mn	EDTA extraction method (3115)
Leaf and Fruit	Determination of B, Ca, Cu, Fe, K, Mg, Mn, Na, P and Zn	ICP-OES, Dry Ashing extraction (3102 and 3094)
	Determination of N	Leco Combustion (3127)

Leaf	Determination of S	ICP-OES, Wet Digestion extraction (3104)
Drinking , Bottled , Borehole / Irrigation and Waste Water	Determination of B, Ca, Cu, Fe, K, Mg, Mn, Na, P, S and Zn	ICP-OES (3132)
	Determination of Electrical conductivity	EC Meter (3135)
	Determination of NH <sub>4</sub> and NO <sub>3</sub>	Gallery Discrete Analyser (4511)
	Determination of pH electrometrically	pH Meter (3136)
	Determination of CO <sub>3</sub> HCO <sub>3</sub> (alkalinity)	Titrimetric method (3137)
	Determination of Chloride	Titrimetric method (3138)
	Determination of Chemical Oxygen Demand (COD)	Spectrophotometer (3289)
	Determination of Heavy Metals: Al, As, Ba, Be, Cd, Co, Cr, Mo, Ni, Pb, Sb, Se and V	ICP-OES (3225)
	Drinking , Bottled , Borehole/ Irrigation and Waste Water	Determination of Electrical conductivity, pH, CO <sub>3</sub> HCO <sub>3</sub> Total alkalinity
Determination of Chloride		Automated Titrimetric Method (3778)
<b>MICROBIOLOGY</b>		
Drinking, Bottled, Borehole and Waster Water	<i>Escherichia coli</i> and Total Coliform Count	SOP 1454 (Colilert)
	Faecal Coliform Count	SOP 1454 (Colilert)
	Total Plate Count	SOP 1454 (SANS 5221)
	Enumeration of Total Count, <i>Escherichia coli</i> and Faecal Count Membrane Filtration	SOP 6386 (Membrane Filtration)

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Original Date of Accreditation: 30 June 2015

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

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**Accreditation Manager**