

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

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 (Water &,SOP 4511)
 Ms M van Lill (Soil, Leaf & Fruit)
 Mrs S Thomas (Soil, Leaf & Fruit)
 Mr A Pascall (All Chemistry methods)
 Mr S Salie (All Water Chemistry methods)
 Ms M Ernstzen (SOP 1454 M)
 Mr S Sungay (SOP 1454 M)

Postal Address:

P O Box 684
 Somerset Mall
 7137

Nominated Representative:

Mr A Theron

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Issue No.: 09

Date of Issue: 29 June 2020

Expiry Date: 30 June 2025

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL		
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, 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, Waste Water	Determination of B, Ca, Cu, Fe, K, Mg, Mn, Na, P, S, Zn	ICP-OES (3132)
	Determination of Electrical conductivity	EC Meter (3135)
	Determination of NH ₄ and NO ₃	Gallery Discrete Analyser (4511)
	Determination of pH electrometrically	pH Meter (3136)
	Determination of CO ₃ HCO ₃ (alkalinity)	Titrimetric method (3137)
	Determination of Chloride	Titrimetric method (3138)
	Determination of Chemical Oxygen Demand (COD)	Spectrophotometer (3289)
Drinking , Bottled , Borehole/ Irrigation , Waste Water	Determination of Heavy Metals: Al, As, Ba, Be, Cd, Co, Cr, Mo, Ni, PB, Sb, Se, V	ICP-OES (3225)
	Determination of Electrical conductivity, pH, CO ₃ HCO ₃ Total alkalinity	Automated Titrimetric Method (3777)
	Determination of Chloride	Automated Titrimetric Method (3778)
MICROBIOLOGY		
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)

Original Date of Accreditation: 30 June 2015

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager