

# CERTIFICATE OF ACCREDITATION

## **FARMING AND ENGINEERING SERVICES LIMITED T/A AGRILAB**

*Malawi Registrar of Companies, Companies Act (Cap. 46:03), Registration Number 6008*

**Facility Accreditation Number: TEST-5 0059**

is a SADCAS accredited Testing Laboratory  
provided that all SADCAS conditions are complied with

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

### **CHEMICAL ANALYSIS**

*The facility is accredited in accordance with the recognized International Standard*

### **ISO/IEC 17025:2017**

*The accreditation demonstrates technical competency for a defined scope and the operation  
of a laboratory quality management system*

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and  
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States  
as a multi-economy accreditation body*

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**Mrs Maureen P Mutasa**  
**SADCAS Chief Executive Officer**

**Effective Date (Issue No: 1): 31 March 2021**  
**Certificate Expires: 30 March 2026**

## ANNEXURE A

### SCHEDULE OF ACCREDITATION

#### CHEMICAL ANALYSIS

Laboratory Accreditation Number: **TEST-5 0059 (ISO/IEC 17025:2017)**

<p><b>Permanent Address of Laboratory</b> Farming and Engineering Services Limited T/A Agrilab Kaohsiung Road, Top Mandala Blantyre Malawi</p> <p><b>Postal Address</b> P O Box 918 Blantyre Malawi</p> <p><b>Tel</b> : +265 187 9099 <b>Cell</b> : +265 99 330 662 <b>Fax</b> : +265 181 2088 <b>Email</b> : <a href="mailto:awhite@agrilabmw.com">awhite@agrilabmw.com</a></p>		<p><b>Technical Signatories</b> :</p> <p>Ms M Subili (All methods) Mr B Shano (AGRI 045, AGRI 074, AGRI 75, AGRI 076 &amp; AGRI 025) Mr G Mwausegha (All methods, except AGRI 051) Mr S Simbota (All methods) Dr A Munian (All methods) Mr W Malton (All methods, except AGRI 051) Mr A Nkhota (All methods, except AGRI 051)</p> <p><b>Nominated Representative</b> : Ms A White</p> <p><b>Issue No</b> : 04 <b>Date of Issue</b> : 15 December 2023 <b>Expiry Date</b> : 30 March 2026</p>
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Soil	<p>Electrical Conductivity</p> <p>pH (Water Extraction)</p> <p>pH (CaCl<sub>2</sub> extraction)</p> <p>pH (KCl extraction)</p> <p>Pesticide Residue in Soil</p> <p>Phosphorus (P) – Bray 1 Extraction</p> <p>Phosphorus (P) – Bray 2 Extraction</p> <p>Al, B, Cr, Cu, Fe, Mn, Ni, Pb and Zn</p> <p>Ca, K, Mg, Na &amp; S by Ammonium Acetate Extraction</p>	<p>AGI 046 - Electrical Conductivity Meter</p> <p>AGRI 045 – pH Meter</p> <p>AGRI 074 – pH Meter</p> <p>AGRI 075 – pH Meter</p> <p>AGRI 51 – LCMS/MS GC/MS</p> <p>AGRI 015 – Segmented Flow Analyser</p> <p>AGRI 016 – Segmented Flow Analyser</p> <p>AGRI 010 - ICP/OES</p> <p>AGRI 009 - ICP/OES</p>

## ANNEXURE A

Laboratory Accreditation No: TEST-5 0059 (ISO/IEC 17025:2017)

Issue No: 04

Date of Issue: 15 December 2023

Date of Expiry: 30 March 2026

MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/ TECHNIQUES USED
Soil	Boron (B) by Hot Water Extraction	AGRI 014 – Segmented Flow Analyser
	Inorganic Carbon	AGRI 013 - Combustion Analyser
	Cu, Fe, Mn & Zn by Ambic 1 Extraction	AGRI 011 – ICP/OES
	Particle Size Distribution	AGRI 025 – PSD Analyser
	Total Carbon & Total Nitrogen	AGRI 012 – Combustion Analyser
Water	pH & Conductivity	AGRI 076 – pH & Electrical Conductivity Meter
	B, Ca, Cu, Fe, K, Mg, Mn, Na and Zn	AGRI 073 – ICP/OES
Plant Materials	Total Carbon & Nitrogen	AGRI 042 – Combustion Analyser
	Determination of Al, B, Ca, Cu, Fe, K, Mg, Mn, P, S, Si and Zn	AGRI 010 – ICP/OES
	Pesticide residue in Soil and Leaf	AGRI 051 – LCMS/MS GC/MS
Fertilizers	Total Nitrogen	AGRI 042 - Combustion Analyser
	Acid-soluble phosphorus (P)	AGRI 040 – ICP/OES
	Water-soluble potassium (K)	AGRI 040 – ICP/OES
	B, Ca, Cr, Cu, Ni, Pb, S and Zn	AGRI 039 – ICP/OES
	Moisture content	AGRI 035 – Combustion Moisture Analyser

Original date of accreditation: 31 March 2021

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**Pinkie J Malebe**  
**SADCAS Technical Manager**