KENAS Delivering Trust | KENYA ACCREDITATION SERVICE

P. O. Box 47400 – 00100 | TEL. +254 - 20 484 0000 | Nairobi, Kenya

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SCHEDULE OF ACCREDITATION

CROP NUTRITION LABORATORY SERVICES LIMITED

ISO/IEC 17025:2017

Testing Laboratory Number: **KENAS/TL/021**

PERMANENT ADDRESS OF LABORATORY

Crop Nutrition Laboratory Services Limited

P. 0. Box 66437 - 00800

Limuru Subcounty, Limuru Central Ward

Plot No 4861, Kiambu County

Nairobi - Kenya

Tel: +254 (0) 711094444, +254 (0) 720639933

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Expiry Date: 19-Feb-2029

Approved by: _____ Date: 21-SEPT-2026

KENAS CEO/ Authorized Representative

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SCHEDULE OF ACCREDITATION - CROP NUTRITION LABORATORY SERVICES LTD

No.	TESTING FIELD	Test Object / Matrix	Test Parameter	Test Method	Type of Test	MEASUREMENT RANGE	TEST LOCATION
01	Microbiology	Water, Wastewater/ Effluent	Thermotolerant Coliforms and *Escherichia coli*	CN-TM-M01	Enumeration	2 – 1800 MPN/100 ml	Microbiology Laboratory, Limuru
			Total Bacterial Counts @ 22 and 37 °C	CN-TM-M02		≥1 cfu/ml	
			Total Coliforms and *Escherichia coli*	CN-TM-M03		≥1 cfu/100 ml	
			Streptococcus faecalis / Intestinal enterococci	CN-TM-M04		>1 cfu/100 ml	
			Pseudomonas aeruginosa	CN-TM-M06		≥1 cfu/100 ml	
		Food, feed, swabs & water, Wastewater/ Effluent, Nutrient Solutions	*Clostridium perfringens* and sulphite reducing anaerobes	CN-TM-M05	Enumeration	≥1 cfu/g, <300 cfu/plate & ≥1 cfu/100 ml respectively	
			Staphylococcus aureus	CN-TM-M07		<300 cfu/plate in food & feed & ≥1 cfu/100 ml in water	
			Salmonella spp.	CN-TM-M08	Detection	Qualitative	
			Vibrio spp.	CN-TM-M09		Qualitative	
			Listeria species and *Listeria monocytogenes*	CN-TM-M11	Detection & enumeration	≥1 cfu/ml, <300 cfu/plate in food & feed & ≥1 cfu/100 ml in water	
		Food, feed & swabs	Total Plate count	CN-TM-M12	Enumeration	<300 cfu/plate in food & feed & ≥1 cfu/100 ml in water	
			Total coliform count	CN-TM-M13		<300 cfu/plate	
			Escherichia coli	CN-TM-M14		≥1 cfu/g, <300 cfu/plate in food & feed & ≥1 cfu/100 ml in water	
			Yeast and mould	CN-TM-M15		<150 cfu/plate	
			Enterobacteriaceae	CN-TM-M16		≥1 cfu/g, <300 cfu/plate in food & feed & ≥1 cfu/100 ml in water	
		Food & Feed	*Bacillus* species	CN-TM-M18	Enumeration	≥1 cfu/ml, <300 cfu/plate in food & feed	
02	Chemistry	Tea	Moisture	ISO 1573	Gravimetry	≥0.01 % m/m	Chemistry Laboratory, Limuru
			Water extract	CN-TM-P08 (ISO 9768)		≥0.01 % m/m	
			Total Ash Content	ISO 1575		≥0.2 % m/m	
			Water Soluble Ash	ISO 1576		≥0.2 % m/m	
			Alkalinity of Water-Soluble Ash	ISO 1578	Titrimetric	≥0.02 % m/m	

No.	TESTING FIELD	Test Object / Matrix	Test Parameter	Test Method	Type of Test	MEASUREMENT RANGE	TEST LOCATION
			Total Polyphenols	ISO 14502 / CN-TM-P12	Spectrophotometry	≥0.2 % m/m	
			Arsenic	CN-TM-P09	Spectrophotometry (ICP-OES)	≥0.02 ppm	
			Cadmium			≥0.01 ppm	
			Lead			≥0.04 ppm	
03	Chemistry	Food & Feed	Total Aflatoxins (B1, B2, G1, G2)	CN-TM-P11	ELISA	≥1 ppb	
			Fumonisin	CN-TM-P14		≥0.15 ppm	
			Ochratoxin	CN-TM-P15		≥1.5 ppb	
			Aflatoxin B1	CN-TM-P16		≥1.5 ppb	
			Aflatoxin M1	CN-TM-P22		≥5 ppt	
			Crude protein	CN-TM-P20	Dry Combustion - Elemental Analysis	≥0.2 – 100 %	
			Total Oil/fat content	CN-TM-P21	Soxhlet	≥0.2 – 100 %	
			Moisture Content	CN-TM-P17	Gravimetric	≥0.01 – 100 %	
			Total Ash content	CN-TM-P18		≥0.2 – 100 %	
			Acid Insoluble ash	CN-TM-P19		≥0.05 – 100 %	
04	Chemistry	Soil	Potassium	CN-TM-S07	Spectrophotometry	≥0.2 ppm	Chemistry Laboratory, Limuru
			Aluminium			≥0.8 ppm	
			Phosphorus			≥0.2 ppm	
			Calcium			≥0.2 ppm	
			Magnesium			≥0.2 ppm	
			Iron			≥0.6 ppm	
			Boron			≥0.02 ppm	
			Sulphur			≥0.5 ppm	
			Zinc			≥0.2 ppm	
			Manganese			≥0.3 ppm	
			Copper			≥0.2 ppm	
			pH	CN-TM-S02	Potentiometric	0 – 14	
			Arsenic	CN-TM-S16 (Aqua regia)	Spectrophotometry	≥0.2 ppm	
			Cadmium			≥0.2 ppm	
			Cobalt			≥0.1 ppm	
			Chromium			≥0.15 ppm	
			Molybdenum			≥0.1 ppm	
			Nickel			≥0.1 ppm	
			Lead			≥0.2 ppm	
			Strontium			≥0.07 ppm	
			Tin			≥0.05 ppm	
			Aluminium			≥0.8 ppm	
			Zinc			≥0.2 ppm	
			Copper			≥0.2 ppm	
			Total Carbon	CN-TM-S37	Dry Combustion - Elemental Analysis	≥0.05 %	
			Total Nitrogen			≥0.03 %	
			Organic Carbon	CN-TM-S31	Dry Combustion - Elemental Analysis	≥0.20 %	
				CN-TM-S35 (Walkley & Black)	Wet Oxidation - Titrimetric	≥0.20 %	

No.	TESTING FIELD	Test Object / Matrix	Test Parameter	Test Method	Type of Test	MEASUREMENT RANGE	TEST LOCATION
05	Chemistry	Fertilizer, Gypsum and agricultural liming material	Calcium	CN-TM-F02 (AOAC method 965.09)	Spectrophotometry	≥0.05 ppm	Chemistry Laboratory, Limuru
			Calcium as CaO			≥0.07 ppm	
			Phosphorus			≥0.01 ppm	
			Phosphorus as P_2O_5			≥0.0229 ppm	
			Phosphorus as PO_4			≥0.0307 ppm	
			Potassium			≥0.12 ppm	
			Potassium as K_2O			≥0.1446 ppm	
			Magnesium			≥0.01 ppm	
			Magnesium as MgO			≥0.017 ppm	
			Iron			≥0.01 ppm	
			Boron			≥0.01 ppm	
			Sulphur			≥0.02 ppm	
			Sulphur as SO_4			≥0.06 ppm	
			Zinc			≥0.01 ppm	
			Manganese			≥0.01 ppm	
			Copper			≥0.01 ppm	
			Molybdenum			≥0.01 ppm	
			Arsenic			≥2 ppm	
			Lead			≥1.25 ppm	
			Nickel			≥0.6 ppm	
			Chromium			≥1 ppm	
			Cadmium			≥0.15 ppm	
06	Chemistry	Fertilizer	Total Nitrogen	CN-TM-F02 (AOAC method 965.09)	Calculations	≥0.01 – 100 %	Chemistry Laboratory, Limuru
			Ureic N	CN-TM-F05	Spectrophotometry	≥0.01 – 100 %	
			Moisture Content	CN-TM-F08	Gravimetric	≥0.01 – 100 %	
			(NH_4)-N	CN–TM–F02	Spectrophotometry	≥0.01 %	
			(NO_3)-N			≥0.01 %	
07	Chemistry	Water, Wastewater/ Effluent, Nutrient Solutions	Electrical Conductivity	CN-TM-W02	Conductivity	≥1 µS/cm	Chemistry Laboratory, Limuru
			pH	CN-TM-W01	Potentiometric	0 – 14	
			Phosphates	CN-TM-W23	Spectrophotometry	≥0.03 ppm	
			Sulphates			≥0.1 ppm	
			Fluoride	CN-TM-W04		≥0.03 ppm	
			Chloride (Cl^-)	CN-TM-W03 (EPA 325.2)		≥0.1 ppm	
			Nitrite N (NO_2-N)	CN-TM-W21		≥0.25 – 100 ppm	
			Arsenic	CN-TM-W14	Spectrophotometry (ICP-OES)	≥0.007 ppm	
			Barium			≥0.01 ppm	
			Cadmium			≥0.002 ppm	
			Cobalt			≥0.001 ppm	
			Chromium			≥0.004 ppm	
			Nickel			≥0.003 ppm	
			Lead			≥0.09 ppm	
			Selenium			≥0.02 ppm	
			Strontium			≥0.01 ppm	

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			Chemical Oxygen Demand (COD)	CN-TM-W12	Colorimetric	≥1.5 ppm	
			Aluminium	CN-TM-W08	Spectrophotometry (ICP-OES)	≥0.07 ppm	
			Potassium			≥0.12 ppm	
			Sodium			≥0.05 ppm	
			Phosphorus			≥0.01 ppm	
			Calcium			≥0.05 ppm	
			Magnesium			≥0.02 ppm	
			Iron			≥0.01 ppm	
			Boron			≥0.01 ppm	
			Sulphur			≥0.05 ppm	
			Silicon			≥0.02 ppm	
			Zinc			≥0.01 ppm	
			Manganese			≥0.01 ppm	
			Molybdenum			≥0.01 ppm	
			Copper			≥0.01 ppm	
08	Chemistry	Water, Wastewater/ Effluent, Nutrient Solutions	(NH_4)-N	CN-TM-W06 (EPA 353.1)	Spectrophotometry	≥0.02 ppm	
			(NO_3)-N	CN-TM-W07 (EPA 353.1)		≥0.02 ppm	
09	Plant Pathology – Bacteria Detection	Plant Solanaceae & Cucurbitaceae, Soil & Water	*Ralstonia solanacearum*	CN-TM-PT02	DAS-ELISA	Qualitative	Plant Pathology Laboratory Limuru

Accreditation History

Type	Decision Date	Effective Date	Expiry
Initial Accreditation	**20-FEB-2015**	**20-FEB-2015**	**19-FEB-2018**
1st Re-accreditation	**16-MAR-2018**	**16-MAR-2018**	**19-FEB-2021**
2nd Re-accreditation	**23-FEB-2021**	**23-FEB-2021**	**19-FEB-2025**
3rd Re-accreditation	**16-JAN-2025**	**20-FEB-2025**	**19-FEB-2029**

This schedule is issued subject to the terms and conditions of KENAS Accreditation. It supersedes any other schedule(s) issued in the past

Approved by: _____ Date: 21-SEPT-2026

~~KENAS CEO~~ / Authorized Representative