KENAS Delivering Trust | KENYA ACCREDITATION SERVICE

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SCHEDULE OF ACCREDITATION

SGS KENYA LIMITED

ISO/IEC 17025:2017

Testing Laboratory Number: **KENAS/TL/101**

PERMANENT ADDRESS OF LABORATORY
SGS HOUSE SHIMANZI, ALI PUNJANI STREET
P.O BOX 90264-80100 MOMBASA
Tel. No. +254 41 2226677/8/9, 0722202145, 0733611105
E-MAIL : lab.kenya@sgs.com
WEBSITE: www.sgs.co.ke

Laboratory Contact Person:

Anselm Riungu – Laboratory Technical & Operations Manager

Technical Signatory:

1. **Food Chemistry:** Anselm Riungu, Elizabeth Ombura, Gift Kisengese & Samson Juma
2. **Food, Soil, Water & Petrochemistry:** Noelle Odoyo, Leslie Nyatigi, Pauline Onyango, Selina Longa & Fiona Obote
3. **Microbiology:** Dolly Ogolla & Judy Kiprotich
4. **Chromatography & Spectroscopy:** Caroline Chege, Sharon Mugambi, Wesley Gitahi, John Kamau, Eric Terer & Anselm Riungu

Expiry Date: 27-July-2030

Approved by: _____ Date: 28-07-2026

~~KENAS CEO~~/ Authorized Representative

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SCHEDULE OF ACCREDITATION – SGS KENYA LIMITED

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
1.	Chemistry	Gas Oil	Carbon Residue, Conradsen, on 10% Residues	ASTM D189	Gravimetric	0.05 to 0.5%(m/m)	Chemistry Laboratory (Petroleum Applications)
			Cetane Index	ASTM D976	Calculation	35 to 55	
			Cloud Point	ASTM D2500	Observational	-10 to 15°C	
			Colour	ASTM D1500	Comparator	1.0 to 5.0 UNITS	
			Corrosion, Copper 3Hr @50°C	ASTM D130	Physical	1A	
			Distillation % Vol, °C	ASTM D86	Physical	400°C	
			Flash Point, PMCC, °C (Clean Oils)	ASTM D93	Physical	60°C	
			Total Acid Number, MG/G KOH	ASTM D974	Titrimetric	0.01 to 0.20mgKOH/g	
			Density @15°C, Kg/m^3 (Clean Oils)	ASTM D4052	Physical	800 to 900kg/m^3	
			Kinematic Viscosity @40OC, CST	ASTM D445	Physical	1.5 to 6.0mm^2/S(cSt)	
			Water Content	ASTM D6304	Volumetric	200mg/kg	
			Sulfur Content % M/M	ASTM D4294	Fluorescence	50mg/Kg	
		Jet Fuel	Kinetic Viscosity @-20°C, CST	ASTM D445	Physical	8.0mm^2/s	
			Saybolt Colour (Manual)	ASTM D156	Comparator	-16 to 30	
			Copper Corrosion	ASTM D130	Physical	1A	
			Existing Gum	ASTM D381	Physical	2mg/100ml	
			Freezing Point	ASTM D2386	Physical	-60 to -40°C	
			Density @15°C	ASTM D4052	Physical	770 to 840kg/m^3	
			Flash Point, Abel, °C	IP 170	Physical	38 to 72°C	
			Sulphur Content, %M/M	ASTM D4294	Fluorescence	10 to 1000mg/kg	
			Distillation %Vol,°C	ASTM D86	Physical	320°C	
			Smoke Point of Kerosene & Aviation Turbine Fuel	ASTM D1322	Physical	15 to 50mm	
		Fuel Oil	Calculated Carbon Aromatic Index (CCAI)	ISO 8217	Calculation	880 to 900	
			Aluminium in Residual Oil by Ashing & Fusion by ICP-OES	IP 501	Spectroscopy	5 to 150 mg/kg	Instrumentation Laboratory

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Vanadium in Residual Oil by Ashing & Fusion by ICP-OES			1 to 400 mg/kg	
			Calcium in Residual Oil by Ashing & Fusion by ICP-OES			3 to 100mg/kg	
			Phosphorous in Residual Oil by Ashing & Fusion by ICP-OES			1 to 60mg/kg	
			Silicon In Residual Oil by Ashing & Fusion by ICP-OES			10 to 250mg/kg	
			Sodium in Residual Oil by Ashing & Fusion by ICP-OES			1 to 100mg/kg	
			Zinc in Residual Oil by Ashing & Fusion by ICP-OES			1 to 70mg/kg	
			Iron in Residual Oil by Ashing & Fusion by ICP-OES			2 to 60mg/kg	
			Nickel in Residual Oil by Ashing & Fusion by ICP-OES			1 to 100mg/kg	
			Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels, MJ/KG	ASTM D4868	Calculation	39 to 45mj/kj	Chemistry Laboratory (Petroleum Applications)
			Carbon Residue, Conradsen, % Mass	ASTM D189	Gravimetric	0.5 to 20% (m/m)	
			Flash Point, PMCC, °C (Black Oils)	ASTM D93	Physical	40 to 120°C	
			Pour Point, °C (Black Oils)	ASTM D97	Physical	-12 to 30°C	
			Ash Content, % Mass	ASTM D482	Gravimetric	0.01 to 1%(m/m)	
			Density @15°C, kg/m^3 (Black Oils)	ASTM D1298	Physical	820 to 1010 kg/m^3	
			Kinematic Viscosity @50°C, CST	ASTM D445	Physical	2 to 400mm^2/s	
			Sediment By Extraction, % Mass	ASTM D473	Gravimetric	0 to 0.5%(m/m)	
			Water Content, %Vol.	ASTM D95	Physical	0 to 0.5%(m/m)	
			Sulphur Content %m/m	ASTM D4294	Fluorescence	0.05 to 4%(m/m)	
		Lubricating Oil	Viscosity Index of Oils, CS	ASTM D2270	Calculation	80 to 200	
			Viscosity @ 40°C	ASTM D445	Physical	10 to 1000mm^2/s	
			Viscosity @100°C	ASTM D445	Physical	3 to 150mm^2/s	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Colour ASTM	ASTM D1500	Comparator	0.5 to 10+	
		Motor Gasoline	Distillation % Vol., °C	ASTM D86	Physical	210°C	
			Determination of Sulfur Content %m/m	ASTM D4294	Fluorescence	0 to 0.05%(m/m)	
		Tea	Moisture Content	ISO 1573	Gravimetric	0.1%(m/m)	Chemistry Laboratory (Food & Non-food Applications)
			Crude Fibre	ISO 15598		0.1%(m/m)	
			Total Ash Content	ISO 1575		0.01%(m/m)	
		Cereals and Pulses	Nitrogen Content & Crude Protein Content - KJELDAHL	ISO 20483	Titrimetric	0.5%(m/m)	
		Oil Seeds	Moisture & Volatile Matter	ISO 665	Gravimetric	1.0%(m/m)	
			Acidity	ISO 729	Titrimetric	0.1%(m/m)	
		Animal and Vegetables Fats and Oils	Peroxide Value MEQ/KG	ISO 3960		0.1 MEQ/KG	
			Iodine Value G/100G	ISO 3961		0.1 G/100G	
			Saponification Value	ISO 3657		170.0MG KOH/G	
			Moisture & Volatile Matter Content	ISO 662	Gravimetric	0.1%(m/m)	
			Acid Value & Acidity	ISO 660	Titrimetric	0.1%(m/m)	
			Insoluble Impurities	ISO 663	Gravimetric	0.01%(m/m)	
		Foods and Feed Stuff	Moisture & other Volatile Matter Content	ISO 6496		0.1%(m/m)	
			Moisture Content - Cereal & Cereal Products	ISO 712		0.1%(m/m)	
			Protein Content	ISO 5983-2	Titrimetric	0.5%(m/m)	
			Crude Fibre - Agriculture Products	ISO 5498	Gravimetric	0.1%(m/m)	
			Fat Content - Animal Feeding Stuffs	ISO 6492		0.1%(m/m)	
			Crude Ash - Animal Feeding Stuffs	ISO 5984		0.1%(m/m)	
			Crude Fibre Content	ISO 6865		0.1%(m/m)	
			Aflatoxin B_1, B_2, G_1 & G_2 - LC MS/MS	EN 17194	Chromatography	0 to 25ppb	Instrumentation Laboratory
			Ochratoxin A - LC-MS/MS			0 to 25ppb	
			Calcium in Fortified Foods - ICP-OES	AOAC 2011:14	Spectroscopy	2.5 to 80 mg/kg	
			Copper in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
			Iron in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
			Magnesium in Fortified Foods - ICP-OES			2.5 to 80 mg/kg	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Manganese in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
			Molybdenum in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
			Phosphorous in Fortified Foods - ICP-OES			2.5 to 80 mg/kg	
			Potassium in Fortified Foods - ICP-OES			2.5 to 80 mg/kg	
			Selenium in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
			Sodium in Fortified Foods - ICP-OES			2.5 to 80 mg/kg	
			Zinc in Fortified Foods - ICP-OES			0.1 to 8 mg/kg	
		Dairy Products	Aflatoxin M_1 - LC-MS/MS	JOAC, 2014 VOL. 69, NO 5, PP 461-466	Chromatography	0.025 to 5 ppb	
		Foods and Feed Stuff	Deoxynivalenol (DON) - LC-MS/MS	EN 17194		10 to 250 ppb	
			Zearalenone - LC-MS/MS			10 to 250 ppb	
			Fumonisin B_1 & B_2 - LC-MS/MS			10 to 250 ppb	
		Fruits & Vegetables (Fresh Produce)	Multi Pesticide Residues in Fruits and Vegetables - LC MS/MS (264 COMPOUNDS)	AOAC 2007.01	Chromatography	10 to 200 ppb	
			Multi Pesticide Residues in Fruits and Vegetables - GC MS/MS (243 Compounds)			10 to 250 ppb	
		Tea	Multi Pesticide Residue - LC-MS/MS (264 Compounds)			10 to 200 ppb	
			Multi Pesticide Residue in Tea - GC-MS/MS (243 Compounds)			10 to 250 ppb	
		Herbs & Spices	Multi Pesticide Residue in Herbs & Spices - GC-MS/MS (243 Compounds)			10 to 250 ppb	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Multi Pesticide Residue in Herbs & Spices - LC-MS/MS (264 Compounds)			10 to 250 ppb	
		Vegetable Oil	Pesticides by Liquid Chromatography - Tandem Mass Spectrometry (LC-MSMS) (264 Compounds)	JAOAC INT. 86(2) 412-31		0 to 250 ppb	
			Pesticides by Gas Chromatography Mass Spectrometry (GC-MS/MS), (243 Compounds)	BS EN 15662		0 to 250 ppb	
		Fruits & Vegetables	Dithiocarbamates AS CS2	EURL -SRM DITHIOCARBAMATE AS CS2, 2009.		0.04 to 1 mg/kg	
		Vegetable Oil, Foods and Feeding Stuff	Vitamin A - HPLC	BASED ON BS EN 12823-1:2014		0.06 to 10 mg/kg	
		Environmental Soil	Volatile Organic Compounds (Benzene, Ethylbenzene, Toluene, M-Xylene, P-Xylene & O-Xylene)	EPA 8260C		0 to 200 ppb	
			Aluminium - ICP-OES	EPA 3050B	Spectroscopy	0.5 to 80 mg/kg	
			Arsenic - ICP-OES			0.5 to 8 mg/kg	
			Barium - ICP-OES			0.5 to 8 mg/kg	
			Beryllium - ICP-OES			0.5 to 8 mg/kg	
			Cadmium - ICP-OES			0.5 to 8 mg/kg	
			Chromium - ICP-OES			0.5 to 8 mg/kg	
			Cobalt - ICP-OES			0.5 to 8 mg/kg	
			Copper - ICP-OES			0.5 to 8 mg/kg	
			Iron -ICP-OES			0.5 to 80 mg/kg	
			Lithium - ICP-OES			00.5 to 8 mg/kg	
			Magnesium - ICP-OES			0.5 to 80 mg/kg	
			Manganese - ICP-OES			0.5 to 80 mg/kg	
			Nickel - ICP-OES			0.5 to 8 mg/kg	
			Potassium - ICP-OES			0.5 to 80 mg/kg	
			Sodium - ICP-OES			0.5 to 80 mg/kg	
			Strontium - ICP-OES			0.5 to 8 mg/kg	
			Uranium ICP-OES			0.5 to 8 mg/kg	
			Zinc ICP-OES			0.5 to 80 mg/kg	
			Mercury - ICP-OES			1 to 100 ppb	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Lead - ICP-OES			0.5 to 8 mg/kg	
			Mercury – ICP-OES with MSIS	EPA 3051A		1 to 100 ppb	
		Water - Portable & Wastewater	Volatile Organic Compounds (Benzene, Ethylbenzene, Toluene, M-Xylene, P-Xylene & O-Xylene)	EPA 8260B	Chromatography	0 to 200 ppb	
			Conductivity (EC)	APHA 2510 B	Potentiometric	1 uS/cm to 120 mS/cm	Chemistry Laboratory (Soil & Water Applications)
			Colour	APHA 2120 B	Comparator	0 to 1500HU	
			Alkalinity	APHA 2320	Titrimetric	5 mg/L	
			Oil & Grease	APHA 5520 D	Gravimetric	6.73 mg/L	
			Fluorides as F^-	APHA 4500F-C	Potentiometric	0.14 mg/L	
			Total Dissolved Solids	APHA 2540 C	Gravimetric	10.0 mg/L	
			pH	APHA 4500 H +	Potentiometric	1 to 14	
			Nitrates	APHA 4500-NO^- B	Potentiometric	0.1 mg/L	
			Biological Oxygen Demand (BOD) 5	APHA 5210-B	Incubation	7mg/L	
			Chlorides as Cl	APHA 4500-Cl-B	Titrimetric	5 mg/L	
			Sulphates	APHA 4500 SO^2 C-GRAVIMETRIC (IGNITION)	Gravimetric	2 mg/L	
			Residual Chlorine	APHA 4500-Cl_2	Comparator	0.02 mg/L	
			Turbidity	APHA 2130 B	Nephlometric	0.1 NTU	
		Portable Water	Aluminium - ICP-OES	APHA 3120B	Spectroscopy	0.025 to 1.0 mg/l	Instrumentation Laboratory
			Arsenic - ICP-OES			0.025 to 1.0 mg/l	
			Cadmium - ICP-OES			0.025 to 1.0 mg/l	
			Calcium - ICP-OES			0.5 to 80 mg/l	
			Chromium - ICP-OES			0.025 to 1.0 mg/L	
			Copper - ICP-OES			0.025 to 1.0 mg/l	
			Iron - ICP-OES			0.025 to 1.0 mg/l	
			Manganese - ICP-OES			0.025 to 1.0 mg/l	
			Magnesium - ICP-OES			0.5 to 80 mg/l	
			Cobalt - ICP-OES			0.025 to 1.0 mg/l	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Molybdenum - ICP-OES			0.025 to 1.0 mg/l	
			Nickel - ICP-OES			0.025 to 1.0 mg/l	
			Lead - ICP-OES			0.025 to 1.0 mg/l	
			Potassium - ICP-OES			0.5 to 80 mg/l	
			Sodium - ICP-OES			0.5 to 80 mg/l	
			Zinc - ICP-OES			0.025 to 1.0 mg/l	
		Waste Water	Aluminium - ICP-OES	APHA 3120B	Spectroscopy	0.025 to 1.0 mg/l	
			Silver - ICP-OES			0.025 to 1.0 mg/l	
			Arsenic - ICP-OES			0.025 to 1.0 mg/l	
			Barium - ICP-OES			0.025 to 1.0 mg/l	
			Beryllium - ICP-OES			0.025 to 1.0 mg/l	
			Boron - ICP-OES			0.025 to 1.0 mg/l	
			Cadmium - ICP-OES			0.025 to 1.0 mg/l	
			Cobalt - ICP-OES			0.025 to 1.0 mg/l	
			Chromium - ICP-OES			0.025 to 1.0 mg/l	
			Iron - ICP-OES			0.025 to 1.0 mg/l	
			Manganese - ICP-OES			0.025 to 1.0 mg/l	
			Molybdenum - ICP-OES			0.025 to 1.0 mg/l	
			Nickel - ICP-OES			0.025 to 1.0 mg/l	
			Lead - ICP-OES			0.025 to 1.0 mg/l	
			Copper - ICP-OES			0.025 to 1.0 mg/l	
			Selenium - ICP-OES			0.025 to 1.0 mg/l	
			Vanadium - ICP-OES			0.025 to 1.0 mg/l	
			ZINC - ICP-OES			0.025 to 1.0 mg/l	
			MERCURY - ICP-OES ICP-OES with MSIS	ASTM D 3223		1 to 100 ppb	
		Soil (Agri Soil & Compost Manure)	pH	ICARDA 5.2	Potentiometric	1 to 14	Chemistry Laboratory (Soil & Water Applications)
			Electrical Conductivity	ICARDA 5.3		0.5 mmhos/cm	
			Organic Matter	ICARDA 5.5	Titrimetric	0.5%	
			Nitrogen	ICARDA 5.9		0.1%	
			Boron	MEHLICH III	Spectroscopy	0.125 to 8 mg/kg	Instrumentation Laboratory
			Copper			0.125 to 8 mg/kg	
			Magnesium			2.5 to 100 mg/kg	
			Calcium			2.5 to 100 mg/kg	
			Potassium			2.5 to 100 mg/kg	
			Phosphorous			2.5 to 100 mg/kg	
			Manganese			2.5 to 100 mg/kg	
			Zinc			0.125 to 8 mg/kg	
			Sodium			2.5 to 100 mg/kg	
			Iron			2.5 to 100 mg/kg	
2.	Microbiology	Tea & Food (Cereals, Nuts, Dairy Products, Meat Products,	Total Coliform Count	ISO 4832	Enumeration	10 to 150 CFU/G 10 to 150 CFU/ML	Microbiology Laboratory
			Escherichia Coli	ISO 16649-2		10 to 300 CFU/G 10 to 300 CFU/ML	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
		Fish Products, Vegetable Products, Fruit Juices and Concentrates)	Total Plate Count	ISO 4833		10 to 300 CFU/G 10 to 300 CFU/ML	
			Staphylococcus Aureus (Colony Count)	ISO 6888-2		10 to 300 CFU/G 10 to 300 CFU/ML	
			Salmonella Spp.	ISO 6579	Detection	Detected / Not Detected Per 25G/ML	
		Food (Lipid-Based Nutrient Supplements (Lns), Nuts, Dairy Products, Peanut Paste)				Detected / Not Detected Per 375G	
		Tea & Food (Cereals, Nuts, Dairy Products, Meat Products, Fish Products, Vegetable Products, Fruit Juices and Concentrates)	Clostridium Perfringens	ISO 15213	Enumeration	10 to 150 CFU/G 10 to 150 CFU/ML	
			Listeria Spp. / Listeria Monocytogenes	ISO 11290-1	Detection & Enumeration	10 to 300 CFU/G 10 to 300 CFU/ML	
			Yeast & Moulds	ISO 21527	Enumeration	10 to 150 CFU/G 10 to 150 CFU/ML	
			Bacillus Cereus	ISO 7932		10 to 300 CFU/G 10 to 300 CFU/ML	
			Enterobacteriaceae	ISO 21528-2		10 to 300 CFU/G 10 to 300 CFU/ML	
			Escherichia Coli 0157	ISO 16654	Detection	Detected / Not Detected Per 25G/ML	
			Lactic Acid Bacteria	ISO 15214	Enumeration	10 to 300 CFU/G 10 to 300 CFU/ML	
			Vibrio spp. & V Parahaemolyticus	ISO 21872	Detection	Detected / Not Detected Per 25G/ML	
		Water: Potable, Process, Effluent and Borehole	Total Plate Count (CFU)	ISO 6222	Enumeration	10 to 300 CFU/G 10 to 300 CFU/ML	
			Salmonella Spp.	ISO 19250	Detection	Detected / Not Detected Per 100ML	

No.	Testing Field	Test Object / Matrix	Test Parameter	Test Method	Type of Test	Measurement Range	Test Location
			Enterococcus Faecalis (Streptococcus Faecalis)	ISO 7899-2	Detection & Enumeration	Detected / Not Detected Per 100ML >1CFU/100ML	
			Legionella	ISO 11731-2	Enumeration	Detected / Not Detected 10 to 300 CFU/100ML	
			Pseudomonas Aeruginosa	ISO 16266	Detection & Enumeration	Detected / Not Detected Per 100ML >1CFU/100ML	
			Total Coliforms	ISO 9308-2 (COLILERT-18 / QUANTI-TRAY METHOD)	Enumeration	>1MPN/100ML	
			Faecal Coliforms	ISO 9308-2 (COLILE RT-18 / QUANTI-TRAY METHOD)		>1MPN/100ML	
			Escherichia Coli Count	ISO 9308-2 (COLILERT-18 / QUANTI-TRAY METHOD)		>1MPN/100ML	

Accreditation History

Type	Decision Date	Effective Date	Expiry
Initial Accreditation	28-July-2026	28-July-2026	27-July-2030

This schedule is issued subject to the terms and conditions of KENAS Accreditation.

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Approved by: _____ Date: 28-July-2026

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