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

MAZINGIRA AND ENGINEERING CONSULTANTS LIMITED

ISO/IEC 17025:2017

Calibration Laboratory Number: **KENAS/CL/036**

PERMANENT ADDRESS OF LABORATORY

MAISHA HEIGHTS, FIRST FLOOR

THIKA, KENYA

Tel. No. +254 721 203 898

E-MAIL : info@mazingiraconsultants.com

Laboratory Contact Person:

Samuel K Muturi

Technical Signatories:

1. Samuel Muturi – Mass, Pressure
2. Victor Komen – Volume, Temperature

Expiry Date: 13-January-2027

Approved by: _____

KENAS ~~CEO~~/ Authorized Representative

Date: 7-November-2025

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SCHEDULE OF ACCREDITATION – MAZINGIRA AND ENGINEERING CONSULATNTS LIMITED

1.0 Calibration Field: Temperature

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Electrically heated and cooling liquid baths	Temperature	**Internal:** MCL- TSP-TEMP-001 profiling **Reference:** ASTME 1363-16	a) Standard Multifunction process calibrator S/No 316A16020023 Type ADT221A: Temperature Range: -100°C to 1600°C b) PT 100 Sensors S/No. Pt 01, Temperature Range: -40°C to 380°C **Traceability:** MET/4/3/113/296	-40°C to 380°C	± 1.00°C	Laboratory and client sites
Liquid in Glass Thermometers, Digital Digital Thermometers, Dial Gauge Thermometers and Infrared Thermometers	Temperature	**Internal:** MCL- TSP-TEMP-002 (Comparison) **Reference**: ASTM E 1363-16	a) Standard Multifunction process calibrator S/No 316A16020023 Type ADT221A: Temperature Range: -100°C to 1600°C b) PT 100 Sensors S/No. Pt 01, Temperature Range: -40°C to 380°C c) Water/Oil/Alcohol Bath S/No. 931230010C Temperature Range- 20°C to 200°C **Traceability** MET/4/3/113/296	-20°C to 380°C	± 1.00°C	Laboratory and Client Sites
Incubators, Drying Ovens, Refrigerators Freezers, Cold rooms and refrigerated containers	Temperature /Humidity	**Internal:** MCL- TSP-TEMP-003 (Profiling) **Reference:** ASTM E 1363-16	a) Standard Multifunction process calibrator S/No 316A16020023 Type ADT221A: Temperature Range: -100°C to 1600°C b) Thermocouple sensors S/No. TCK-01,02,03 of type-K Temperature range -40°C to 300°C **Traceability:** MET/4/3/113/300	-40°C to 300°C	± 5.00C	Laboratory and Client Sites
Electrically heated and pressurized Laboratory Laboratory Sterilizers and Stenizers Autoclaves	Temperature	**Internal:** MCL- TSP-TEMP-004 (Profiling) **Reference:** ASTM E 1363-16	a) Standard Multifunction process calibrator S/No 316A16020023 Type ADT221A: Temperature Range: -100°C to 1600°C b) Thermocouple – sensors S/No TCJ-01, of type-J,	-40 °C to 200 °C	± 2.50 °C	Laboratory and Client Sites

			Temperature range - 40°C to 200°C **Traceability:** KEBS/MET/4/3/111/046			
Electrically heated heated Laboratorry Furnaces	Temperature	**Internal:** MCL- TSP-TEMP-005 (Profiling) **Reference:** ASTM E 1363-16	a) Standard Multifunction process calibrator S/No 316A16020023 Type ADT221A: Temperature Range: -100°C to 1600°C b) Thermocouple – sensors S/No TCN-05, of type-N. Temperature range -40°C to 1200°C **Traceability:** KEBS/MET/4/3/113/297	40°C to 1200°C	± 2.50°C	Laboratory and Client Sites
RTD temperature readers, Controllers Recorders & Indicators	Temperature	**Internal:** MCL- TSP-TEMP-006 (Simulation) **Reference:** ASTM E 1363-16	Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range: -100°C to 1600°C **Traceability:** MET/4/3/113/298	-100°C to 500°C	± 1.00°C	Laboratory and Client Sites
Thermocouple temperature readers, Controllers, Recorders & Indicator	Temperature	**Internal:** MCL- TSP-TEMP-007 (Simulation) **Reference:** ASTM E 1363-16	Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range: -100°C to 1600°C **Traceability:** MET/4/3/113/299	-100°C to 1600°C	± 1.50°C	Laboratory and Client Sites

2.0 Calibration Field: Volume

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Laboratory piston operated mineaninatt with micropipette with air cushion	Mass 0.01g to 20g	**Internal:** MCL- TSP-VOL-001 (Profiling) **Reference:** ISO 8655-2	Analytical balance S/No 17207619 **Traceability:** MET/2/3/84/888	10 µl to 20mL	± 0.0001mL	Laboratory and Client Sites

3.0 Calibration Field: Pressure

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Industrial Pressure à Vacuum Gauges	Pressure	**Internal:** MCL/TSP/007 **Reference:** KS 09-731	Pressure Standard gauge S/No-211H17820018 (Up to 700Bar) **Traceability:** BS/MET/5/3/74/143	0.0 MPa to 70MPa (0 Bar to 700 Bar)	± 0.005 MPa (± 0.05 Bar)	Laboratory and Client Sites

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4.0 Calibration Field: Mass

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Non-automatic weighing machines	Mass	**Internal:** MCL/SP/08 **Reference Method:** OIML R76:2006	**Class F1 set – range of 1mg – 2kg** Traceability: **BS/MET/2/3/84/888** **Class F1 Piece mass: 5kg.** **Traceability: BS/MET/2/3/84/889**	1g to 2kg	±3.0mg	Laboratory and Client Sites
				2kg to 5 kg	±8.0mg	
				5kg to 10kg	±10mg	

*The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor k = 2, corresponding to a confidence level of approximately 95%.

Accreditation History

Type	Decision Date	Effective Date	Expiry
Initial Accreditation	14-Jan-2019	01-Jan-2019	13-Jan-2023
1st Re-Accreditation	11-May-2023	11-May-2023	13-Jan-2027

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: 7-November-2025

KENAS ~~CEO~~/ Authorized Representative