



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya
Email: info@kenas.go.ke Web: www.kenas.go.ke

SCHEDULE OF ACCREDITATION
MAZINGIRA AND ENGINEERING
CONSULTANTS LIMITED
ISO/IEC 17025:2005

Calibration Laboratory Number: **KENAS/CL/36**

Date of Accreditation: **14-Jan-2019**

PERMANENT ADDRESS OF LABORATORY

Maisha Heights, First Floor

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Technical Manager:

Samuel K Muturi

Technical Signatories:

- 1.0 Samuel K Muturi (Temp, Pressure, Volume and Mass)
- 2.0 Victor Komen (Temperature, Pressure, Volume and Mass)

Date of expiry: 13-Jan-2023

Approved by:  Date: 14-Jan-2019
KENAS CEO/Authorized Representative



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SCHEDULE

No	Calibration Field	Calibration Object	Measurand	Calibration Method	Standard	Calibration and Measurement Capability (Measurement Point / Range \pm expanded uncertainty) <i>Note: Additional information may be required in specialised areas like Electrical measurements one needs to indicate Frequency of applied voltage.</i>	Calibration site
1.		Electrically heated and Cooling Liquid Baths.	Temperature -40°C to 200°C	Internal: MCL-TSP-TEMP-001 (Profiling) Reference: ASTM E1363-16	a) Standard Multifunction Process Calibrator S/No 316A16020023, Type ADT221A: Temperature range : -100°C to 1600°C b) PT 100 Sensors S/nos Pt-01 Temperature range: -40°C to 380°C Traceability: MET/4/3/113/296	-40°C to 380°C + 1.00 C	Various
2.	Temperature	Liquid in Glass thermometers, Digital thermometers, Dial gauge thermometers, and Infra-red thermometers	Temperature -20°C to 230°C	Internal: MCL-TSP-TEMP-002 (Comparison) Reference: ASTM E1363-16	a) Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range : -100°C to 1600°C b) PT 100 Sensors S/Nos Pt-01 Temperature range -40°C to 380°C. c) Water/Oil/Alcohol) Bath , S/No S/No 931230010C Temperature range : -20°C to 200°C) Traceability: MET/4/3/113/296	-20°C to 380°C + 1.00 C	Various



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3.		Incubators, Drying Ovens, Refrigerators Freezers, Cold rooms and refrigerated containers	Temperature /Humidity (-40°C to 300°C)	Internal: MCL-TSP-TEMP-003 (Profiling) Reference: ASTM E1363-16	i) Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range : -100°C to 1600°C . ii) Thermocouple -sensors S/No. TCK-01,02,03 of type-K Temperature range -40 °C to 300 °C , Traceability MET/4/3/113/2/297, 298, 299	-40°C to 300°C \pm 5.00C	Various
4.		Electrically heated and pressurized Laboratory Sterilizers and Autoclaves.	Temperature 100°C to 150°C	Internal: MCL-TSP-TEMP-004 (Profiling) Reference: ASTM E1363-16	i) Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range: -100°C to 1600°C. ii) Thermocouple -sensors S/No. TCJ-01, of type-J, Temperature range -40 °C to 200 °C Traceability KEBS/MET/4/3/111/046	-40 °C to 200 °C \pm 2.50 C	Various
5.		Electrically heated Laboratory Furnaces	Temperature 100°C to 150°C	Internal: MCL-TSP-TEMP-005 (Profiling) Reference: ASTM E1363-16	i) Standard Multifunction Process Calibrator S/No 316A17030041, Type ADT221A: Temperature range: -100°C to 1600°C. ii) Thermocouple -sensors S/No. TCN-05, of type-N, Temperature range -40 °C to 1200°C Traceability: MET/4/3/113/297	40 °C to 1200°C \pm 2.50 °C	Various
6.		RTD temperature readers, Controllers Recorders & Indicators	Temperature -100°C to 500°C	Internal: MCL-TSP-TEMP-006 (Simulation) Reference: ASTM E1363-16	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 \pm 0.80 C	Various



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7.		Thermocouple temperature readers, Controllers, Recorders & Indicators	Temperature -100°C to 1600°C	Internal: MCL-TSP-TEMP-007 (Simulation) Reference: ASTM E1363-16	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	Various
8.	Volume	Laboratory piston operated micro-pipette with air cushion	Mass 0.01g to 20g (volume 1µl to ml)	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 \pm 0.0001mL	Various
9.	Pneumatic Pressure	Industrial Pressure & 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	-0.75 to 40bar \pm 0.05bar	Various
10.	Mass	Non-automatic weighing machines	Mass (1mg – 10kg)	Internal: MCL/TSP/008 Reference Method: OIML R76:2006	Class F1 set - range of 1mg – 2kg Traceability: BS/MET/2/3/84/888 Class F1 one piece mass: 5kg. Traceability: BS/MET/2/3/84/889	1g to 2Kg \pm 3.0mg 2Kg to 5 Kg \pm 8.0mg 5Kg to 10Kg \pm 10 mg	Various

Original Date of Accreditation: 14-Jan-2019

This is the 1st Edition of this schedule and is issued subject to the terms and conditions of KENAS Accreditation.

Approved by: *Machin Chesire* Date: 14-Jan-2019
KENAS CEO/Authorized Representative