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SCHEDULE OF ACCREDITATION

SONIC QUALITY INSPECTORS LIMITED

ISO/IEC 17025:2017

Calibration Laboratory Number: **KENAS/CL/002**

PERMANENT ADDRESS OF LABORATORY

P. O. BOX 6063-00200 NAIROBI, KENYA

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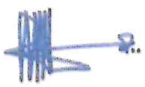
Technical Director:

Paul Musoi

Technical Signatories:

1. Paul Musoi - Mass/Volume/Pressure/Temp/Electrical/Dimensional/Rot. Speed
2. Ian Kiio Mutuku – Mass/Volume/Pressure/Temp/Electrical/ Dimensional/Rot. Speed

Expiry Date: 21-February-2029

Approved by: 

Date: 17-February-2025

KENAS ~~CEO~~/ Authorized Representative

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SCHEDULE OF ACCREDITATION – SONIC QUALITY INSPECTORS LIMITED CALIBRATION LABORATORY

1.0 Calibration Field: Pressure

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) (±expanded uncertainty)	Calibration Site(s)
Pressure gauges	Pressure	**Internal Method:** SQI/PCP/01 **Reference Method:** BS EN 837-1:1998	Electrical Pressure Gauge Budenberg BG100 serial number: BG100-2K5SG-G12 Traceability: BS/MET/5/3/74/294 Fluke 721-3605 Pressure calibrator S/No:4081154 Traceability: KEBS: BS/MET/5/3/74/29/7	0 Bar to 2500 Bar Low pressure sensor range: -14psi to +36psi High pressure sensor range: -12psi to +500psi	± 0.25 Bar ± 0.009psi ± 0.013psi	Client sites

2.0 Calibration Field: Mass

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) (±expanded uncertainty)	Calibration Site(s)
Non-automatic weighing balances	Mass	**Internal Method:** SQI/CP/06/01 **Reference Method:** OIML R76-1 :2006	F1 Masses **Traceability:** KEBS - BS/MET/2/3/88/805	1 mg to 1000mg	± 0.03mg	Client sites
				1g to 2000g	± 0.3mg	
				2kg to 5kg	± 7.5mg	
Non-Auto Weighing Balance	Mass	**Internal Method** SQI/CP/06/02 **Reference Method:** OIML R761:2006	M2 Masses **Traceability:** KEBS: BS/MET/2/3/88/806	20kg to 1000kg	± 1 g	

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3.0 Calibration Field: Volume

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) (±expanded uncertainty)	Calibration Site(s)
Tanks	Volume	**Internal Method:** SQI/VCP/02 **Reference Method:** ISO 8222:2020	Prover tanks 5 Litres: Serial: PRT-5 **Traceability:** BS/MET/8/6/33/103	5 Litres to 100,000 Litres	± 0.06%	Client sites
			Prover tanks 10 Litres: Serial: PRT-10 **Traceability:** BS/MET/8/6/33/104		± 0.09%	
			Prover tanks 20 Litres: Serial: PRT-20 **Traceability:** BS/MET/8/6/33/105		± 0.13%	
			Prover Tanks 100 Litres S/No. PRT-100 **Traceability:** BS/MET/8/6/33/106		± 0.20%	
Pipettes, flasks, burettes	Volume	**Internal Method:** SQI/VCP/01 **Reference Method:** ISO 8655-6: 2022	Shimadzu Analytical balance model AUW220 S/No:D449226412 **Traceability:** BS/MET/2/3/92/355	0.1mg to 220g (0.1 µL to 220 mL)	±0.8 µL (up to 10 mL) ±2.0 µl- (up to 30 mL) ±5 mL (up to 220 mL)	

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) (±expanded uncertainty)	Calibration Site(s)
	Flow meters and oil meters	Volumetric flow	**Internal Method:** SQNCP/O03 **Reference Methods:** ISO 12242:2012 ISO 8222:2020	Clamp on Flexim, ultrasonic flow meter model G601 serial.60107810 **Traceability/**BS /MET/8/3/59/068	0.0001m³/hr to 1000m³/hr ±0.029%	

4.0 Calibration Field: Dimensional

Calibration Object	Measurand	Calibration Method	Standard	Range	Calibration and Measurement Capability (CMC) (±expanded uncertainty)	Calibration site
Length meters Tape measures	Length	BS 4035:1966	Mitutoyo Standard Steel Tape S/No. 16589	0 – 25 m	±0.095 mm	Client Sites
Vernier callipers Micrometre screw gauges	Length	IS 3651-2 (1985) IS 2967 (1983)	Mitutoyo set of calibration rods serial:9856 **Traceability:** BS/MET/7/3/53/ 280	25mm	±0.001mm	Client Sites
				50mm	±0.002mm	
				75mm	±0.005mm	
				100mm	±0.007mm	
				125mm	±0.009mm	
				150mm	±0.011mm	
				175mm	±0.013mm	
				200mm	±0.016mm	
				250mm	±0.018mm	
				300mm	±0.020mm	
				400mm	±0.023mm	
				500mm	±0.025mm	

5.0 Calibration Field: Electrical

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site(s)
Energy & Power Meters	Voltage	**Internal Method:** SQI/ECP/01 **Reference Method:** IEC 61557-12	Fluke 789 Process Meter serial: 31630039 **Traceability:** BS/MET/9/3/57/107	AC- (0 to 1000) V Frequency (0.5Hz to 20kHz)	± 1.2 x 10^{-3} V ± 2.1 x 10^{-3} Hz	Client sites
Digital Multi-meters Clamp Meters Ohmmeters	Current	EURAMET cg-15 2015	CEM DT-9810 Leakage Current Tester serial: 07088876 **Traceability:** BS/MET/9/3/57/131	0A to 2A 2.1A to 200A	±2.9 x 10^{-3}A ±0.4 x 10^{-2}A	
	AC Voltage		Fluke 5502A multi-function calibrator serial: 6598452 **Traceability:** BS/MET/9/3/57/149	AC Voltage 0V to 1000V	±1.8 x 10-4V	
				Frequency 10 Hz to 20kHz	±5.6x10^{-2} Hz	
	DC Voltage			DC Voltage 0V to 1000V	±1.4x10^{-2} Ω ±2.3 x 10^{-5} V	
	AC Current		Frequency 10 Hz to 20kHz	AC Current 0 to 20A (500A using Coil)	±2.3 x 10^{-3} A ±5.6x 10^{-2} Hz	
	AC Current			AC Current 0 to 20A (500A using Coil) Frequency 10 Hz to 20kHz	±2.3 x 10^{-3}A ±5.6x 10^{-2}Hz	
	DC Current			AC Current 0A to 20A (500A using Coil)	±1.7 x 10^{-5}A	
	Resistance			Resistance 1Ω to 1100 MΩ	±2.3X 10^{-1} Ω	
	Capacitance			Capacitance 220pF to 110mF	±0.9% of displayed value	

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site(s)
Magnetic Field meters	Magnetism	IEC 61786-1:2013	Fluke 862 Gauss meter serial:372236 **Traceability:** BS/MET/9/3/34/067	0.2 mT to 4000 mT	±0.15mT	Client sites
pH Meters	pH	Manufacturers Method	Traceable Reference materials	0 to 14pH	±0.2pH	
Conductivity Meters	Conductivity			Limited by the available reference materials	±0.2 µSiemens	
Turbidity meters	Turbidity				±0.3NTU	

6.0 Calibration Field: Rotary Speed

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Centrifuges	Speed	BS 3403:1972	Lutron Digital Tachometer DT-2230 (contact and non-contact) Serial: I.121787 **Traceability:** BS/MET/7/3/53/279	0.5 rpm to 100,000 rpm	±1.3rpm	Client Sites

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7.0 Calibration Field: Temperature

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Water / Oil/ Alcohol Baths	Temperature	Internal Method: SQI/TCP/0l, SQI/TCP/02 & SQI/TCP/03 Reference Method; EA-10/11-02;2002, ASTM- Calibration of thermocouples and LIG thermometers 5th Edition	Temperature Process Calibrator Fluke 725 & Thermocouple Sensor **Traceability:** BS/MET/4/3/115/256 &BS/MET/4/3/115/255	-40 ^{0} C to 200^{0}C	±2.0^0 C	Client sites
Ovens / Incubators /Refrigerators Freezers			Temperature Process Calibrator Thermocouple Sensors (-40^{0}C to 180 ^{0} C); Low Temperature Sensors **Traceability:** BS/MET/4/3/115/256 BS/MET/4/3/115/255	-40^0 C to 350^{0}C	±2.5^{0}C	Client sites
Self-indicating thermometer (Contact thermometers)			Temperature Process Calibrator (-200^0 C to 1800^0 C); Thermo-couple Dry well calibrator - (Temp. Range 30 to 350 ^{0} c) **Traceability:** BS/MET/4/3/115/256 & BS/MET/4/3/115/255	30 ^{0} C to 350^{0}C	±2.0^{0}C	Client sites
Temperature Indicators for Thermo-couple sensors by simulation	Temperature	EURAMET/cg11/v.01	Temperature Process Calibrator (-200 ^{0} C to 1800^0 C) **Traceability:** BS/MET/4/3/115/256	-200 ^{0} C to 1800^{0}C	-200 ^{0} C to 300^0 C (±0.8^{0}C) -40^{0}C to 1200^0 C (±1.5 100^0 C to 1800^0 C (±2.0)	Client sites

Equipment to be calibrated	Measurand	Calibration Method	Reference Standard	Range	Calibration and Measurement Capability (CMC) ± expanded uncertainty)	Calibration Site
Temperature Indicators for resistance sensors by simulation			Temperature Process Calibrator (-200 ^{0}C to 540^{0}C) **Traceability:** BS/MET/4/3/115/2/56	-200^0 C to 540^0 C	±0.8^{0}C	Client sites
Electrically heated furnaces	Temperature	ASTM A991/ A991M -17	Temperature Process Calibrator Thermocouple Sensors (300 ^{0}C to 950 ^{0}C); High Temperature Sensors **Traceability:** BS/MET/4/3/115/256 & BS/MET/4/3/115/255	300^0 C to 950^{0}C	±25^{0}C	Client sites
Electrically heated autoclaves and sterilizers	Temperature	BS 2646-3:1993	Temperature Process Calibrator Thermocouple sensors (90 ^{0}C to 150^0 C); Low Temperature Sensors **Traceability:** BS/MET/4/3/115/256 & BS/MET/4/3/115/255 High Temperature Data Logger MadgeTech serial: R06379 **Traceability:** BS/MET/4/3/115/260	90^0 C to 150^{0}C	±2.5^0 C	Client sites
Climatic Chamber	Humidity	ISBN O904457-24-9	Climatic Chamber **Traceability:** BS/MET/4/3/115/258	RH 5% to 95%	±2.49RH	Client sites

*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%.

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Accreditation History

Type	Decision Date	Effective Date	Expiry
Initial Accreditation	22-Feb-2012	22-Feb-2012	17-Sep-2015
1st Re-accreditation	18-Sep-2015	18-Sep-2015	21-Feb-2018
2nd Re-accreditation	17-Jan-2018	22-Feb-2018	21-Feb-2021
3rd Re-accreditation	17-Dec-2020	22-Feb-2021	21-Feb-2025
4th Re-accreditation	14-Feb-2025	22-Feb-2025	21-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: 17-February-2025

KENAS ~~CEO~~/ Authorized Representative