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

AVIOTEQ PRECISION LIMITED

ISO/IEC 17025:2017

Calibration Laboratory Number: **KENAS/CL/032**

PERMANENT ADDRESS OF LABORATORY

WILSON AIRPORT.

P.O. BOX 3509-00506

NAIROBI, KENYA

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EMAIL: avioteqprecision@gmail.com; info@avioteqprecision.co.ke

Technical Manager:

Charles Orina Matibe

Technical Signatories:

1. Charles Orina - Mass/Press/Temp/Dim/ Vol&Flow/ Force & Torque
2. Joshua Juma - Mass/Press/Temp/Dim/Vol&Flow/ Force & Torque
3. Dennis Onditi - Mass/Press/Temp/Dim/Vol&Flow/ Force & Torque

Expiry Date: 14-September-2028

Approved by: Date: 18-November-2024

KENAS CEO/ Authorized Representative

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SCHEDULE OF ACCREDITATION – AVIOTEQ PRECISION CALIBRATION LABORATORY

1.0 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 balances	Mass	**Internal:** APL/TP/MASS/001 **References:** OIML R 76-1:2016 EURAMET cg-18	Fl Masses S/No: 130037-059 **Traceability:** BS/MET/2/3/88/703	1mg to 5mg	±0.006mg	Laboratory and Client Sites
				10mg	±0.008mg	
				20mg	± 0.010mg	
				50mg	± 0.012mg	
				100mg	± 0.015mg	
				200mg	± 0.020mg	
				500mg	± 0.025mg	
				1g	± 0.03mg	
				2g	± 0.04mg	
				5g	± 0.05mg	
				10g	± 0.06mg	
				20g	± 0.08mg	
				50g	± 0.10mg	
				100g	± 0.15mg	
				200g	± 0.3mg	
				500g	± 0.75mg	
				1kg	± 1.6mg	
				2kg	± 3.0mg	
				5kg	± 8.0mg	
		Internal: APL/TP/MASS/001 **References:** OIML R 76-1:2016 EURAMET cg-18	M2 Masses S/No: APL/C/016 **Traceability:** BS/MET/2/3/88/704	5kg to 1000kg	± 0.07Kg to ± 0.08Kg	

2.0 Calibration Field: Temperature

Equipment to be calibrated	Measurand	Calibration method	Reference standard	Range	Calibration and measurement capability (±)Expanded uncertainty	Calibration site
Water/oil/ Alcohol Baths	Temperature	**Internal:** APL-TP-TEMP-001 **References:**	Thermocouple, Temperature sensor, indicator and simulator S/No: I.267563	-40 °C to 200 °C	± 1.5 °C	Laboratory and Client Sites

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Equipment to be calibrated	Measurand	Calibration method	Reference standard	Range	Calibration and measurement capability (±)Expanded uncertainty	Calibration site
Noncontact and contact thermometers		OIML R 133 EA-4/02	**Traceability:** BS/MET/4/3/112/300 BS/MET/4/3/116/014 BS/MET/4/3/116/174, 175	-20 °C to 650 °C	± 1.5 °C	
Enclosed heating/Cooling Laboratory Chambers		**Internal:** APL-TP-TEMP-003 Reference: EA-4/02 BS2648:1955	Digital Thermometer S/No. I267563 **Traceability:** BS/MET/4/3/137/188 **Traceability:** BS/MET/4/3/112/300 BS/MET/4/3/116/175 Temperature Sensors S/No. TP-03 S/No. TP-03-1 **Traceability:** BS/MET/4/3/116/014 BS/MET/4/3/116/015	-40 °C to 900 °C	± 2.5 °C	
Thermocouple Indicators & Readers by Simulation		**Internal:** APL-TP-TEMP-005 **Reference:** EA-4/02	Multifunction calibrator S/No. a203048729 **Traceability:** BS/MET/4/3/116/174, 175	-80 °C to 1700 °C	±1.5 °C	
RTD Indicators & Readers by Simulation		**Internal:** APL-TP-TEMP-006 **Reference:** EA-4/02	Multifunction calibrator S/No. 0631921221 **Traceability:** BS/MET/4/3/112/300	100 °C to 600 °C	± 0.8°C	

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3.0 Calibration Field: Force & Torque

Equipment to be calibrated	Measurand	Calibration method	Standard	Range	Calibration and Measurement Capability	Calibration Location
Torque Wrenches, Torque Meters, Torque Spanners	Torque	**Internal:** APL/TP/TRQ/001 **Reference:** ISO 6789- 2017 Part 1 and 2	Torque Tester S/No. 14750-1 **Traceability:** 21762-1	15 to 677 Nm	± 1.15%	APL Laboratory
Tensile machine, Compression machine, Universal Testing machine Load rings, CBR Rings Marshall Rings Shear Rings Shear Testers Hydraulic Jacks	Force	**Internal:** APL/TP/FRC/001 **Reference:** ISO 376:2011 ISO 7500-1:2018	2000kN LOAD CELL S/No: C133061 **Traceability:** BS/MET/3/3/54/130 100kN LOAD CELL S/No.:C133062 **Traceability:** BS/MET/3/3/54/129	0 to 2000kN	± 1.23%	APL Laboratory and Client Sites

4.0 Calibration Field: Dimension

Equipment to be calibrated	Measurand	Calibration method	Standard	Range	Calibration and Measurement Capability	Calibration Location
Vernier Callipers	Dimension	**Internal:** APL/TP/DIMENSION/01	Metric Gauge Blocks S. No 080154-1 and 080154-2 **Traceability:** KEBS/MET/7/3/57/179	1mm to 500mm	± 0.10%	Laboratory and Client Sites

5.0 Calibration Field: Volume and Flow

Equipment to be calibrated	Measurand	Calibration method	Standard	Range	Calibration and Measurement Capability	Calibration Location
Micropipette	Volume	**Internal:** APL/TP/VOLUME/001	F1 Masses **Traceability:** BS/MET/2/3/88/703 Analytical balance **Traceability:** BS/MET/02/3/03/291	10µL to 10mL	± 0.10%	Laboratory and Client Sites
Flow Meters	Flow	**Inhouse:** APL/TP/VOLUME/002	Coriolis Flow Meter **Traceability:** BS/MET/8/3/82/009 Ultrasonic Flow Meter **Traceability:** BS/MET/8/3/81/310	Up to 36000 Kg/hr	± 0.10%	Client Sites

6.0 Calibration Field: Pressure

Equipment to be calibrated	Measurand	Calibration method	Standard	Range	Calibration and Measurement Capability	Calibration Location
Pressure Gauges, Vacuum Gauges	Pressure	**Internal:** APL/TP/PRESS/01 **Reference:** DKD-R 6-1:2014 KS 09-731:1985	Fluke Digital Pressure Gauge S/No. 3155143 **Traceability:** KEBS/MET/5/3/77/200	0 Bar to 700 Bar	± 1Bar	Laboratory and 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	15-Sep-2017	15-Sep-2017	14-Sep-2020
1st Re-accreditation	08-Oct-2020	08-Oct-2020	14-Sep-2024
2nd Re-accreditation	31-Oct-2024	31-Oct-2024	14-Sep-2028

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: 18-November-2024

KENAS CEO/ Authorized Representative