

**ZAMBIA METROLOGY AGENCY**  
SCIENTIFIC AND INDUSTRIAL METROLOGY LABORATORIES

**CALIBRATION FEES - REVISED 2023**

**1.0 MASS METROLOGY**

Number	Type of Instrument(s)	Fee(s) (ZMW)
1.1	Weight set (1 mg - 10 kg) Class E2	10,000
1.2	Weight set (1 mg - 10 kg) Class F1 and F2	6,000
1.3	Weight set (1 mg - 1 kg) Class E2	6,000
1.4	Weight set (1 mg - 1 kg) Class F1 and F2	4,500
1.5	Weight set (1 mg - 200 g) Class E2	3,000
1.6	Weight set (1 mg - 200 g) Class F1 and F2	2,500
1.7	Single Weights	300
1.8	Scale > (2,000 kg - 5,000 kg)	4,500
1.9	Scale > (1,000 kg - 2,000 kg)	3,000
1.10	Scale > (500 kg - 1000 kg)	1,500
1.11	Scale > (150 kg - 500 kg)	1,000
1.12	Scale > (30 kg - 150 kg)	800
1.13	Scale > (5 kg - 30 kg)	700
1.14	Analytical balance (1 mg - 5 kg)	700
1.15	Spring balance	700
1.16	Magnetic Susceptibility	200
1.17	Demagnetization	100

**2.0 DIMENSIONAL (LENGTH) METROLOGY**

Number	Type of Instrument(s)	Fee(s) (ZMW)
2.1	Gauge Block Set	7,000
2.2	Penetrometer	1,500
2.3	Bending Machine	1,500
2.4	Thickness Testers	1,500
2.5	Height/depth Gauges > (500 - 1000mm)	700
2.6	Height/Depth Gauges > (300 - 500mm)	600
2.7	Height/Depth Gauges (1 - 300 mm)	500
2.8	3 Point Micrometer	500
2.9	Internal Micrometer	500
2.10	External Micrometer (100 -200mm)	300
2.11	External Micrometer (200 -300mm)	350
2.12	External Micrometer (300 - 1000mm)	500
2.13	Vernier Callipers (1 - 300 mm)	250
2.14	Vernier Callipers > (300 - 500mm)	300
2.15	Vernier Callipers > (500 - 1000 mm)	800
2.16	Tapes (1 - 5 metres)	300
2.17	Tapes > (5 - 10 metres)	250
2.18	Tapes > (10 - 20 metres)	300
2.19	Tapes > (20 - 30 metres)	350
2.20	Tapes > (30 - 50 metres)	450

2.21	Tapes > 50 metres	600
2.22	Test Sieve (per sieve)	300
2.23	Standard Moulds	500
2.24	Dial Gauges	250
2.25	Snap Gauges	250
2.26	Bore Gauges	350
2.27	Gears	350
2.28	Pipes (internal and external diameter)	350
2.29	Bitumen Ductility Machine (bitumen ductility elongation length)	700
2.30	Squares	300
2.31	Test Rods/Standard Rods (per piece)	150
2.32	No Go Gauges (per dimension)	200
2.33	Crimp Gauges (per dimension)	200
2.34	Crimp test on Bottle top test (per dimension)	200
2.35	Step Gauges (per step)	200
2.36	Feeler Gauges (per leaf)	150
2.37	Bitumen Ductility Machine (bitumen ductility elongation length)	700

### 3.0 PRESSURE METROLOGY

Number	Type of Instrument(s)	Fee(s) (ZMW)
3.1	Dead Weight Tester Set (with Mass Pieces)	5,000
3.2	Pressure Calibrator	3,500
3.3	Pressure Balance	2,500
3.4	Pressure Gauge > (2,000 - 5,000 bar)	900
3.5	Pressure Gauge > (1,000 - 2,000 bar)	800
3.6	Pressure Gauge > (10 - 1,000 bar)	700
3.7	Pressure Gauge (1 - 10 bar)	500
3.8	Digital Barometer	600
3.9	Sphygmomanometer	600
3.10	Cleaning and Oiling Deadweight Testers	500

### 4.0 FORCE METROLOGY

Number	Type of Instrument(s)	Fee(s) (ZMW)
4.1	Force Compression Machine > (1 MN -2MN)	5,000
4.2	Force Compression Machine > (500KN - 1MN)	4,500
4.3	Force Compression Machine > (100 -500 kN)	3,500
4.4	Force Compression Machine (0 - 100 kN)	3,000
4.5	Force Transducer	500

**5.0 VOLUME METROLOGY**

Number	Type of Instrument(s)	Fee(s) (ZMW)
5.1	Volumetric Measures (10 - 20 litres)	350
5.2	Volumetric Measures (5litres)	300
5.3	Beaker	150
5.4	Measuring Cylinder	150
5.5	Flask	150
5.6	Single micropipette (per measurement point)	150
5.7	Multi-channel Micropipette (per channel)	150
5.8	Density Meters	600
5.9	Hydrometer (Digital)	700
5.10	Burette	150
5.11	Glass Pipette	250
5.12	Dispenser	150
5.13	Pycnometer	150
5.14	Alcohol Meter	200
5.15	Hydrometer (Analogue)	200
5.16	Lactometer	250

**6.0 TEMPERATURE METROLOGY**

Number	Type of Instrument(s)	Fee(s) (ZMW)
6.1	Temperature Dry Block Calibrator	3,500
6.2	Walk in Cold Rooms (Temperature Mapping per Measurement Point)	2,500
6.3	SPRT Calibration by Fixed Point (Per fixed point)	2,000
6.4	ATG Thermometer	2,000
6.5	Walk in Ovens	2,000
6.6	PRT - Platinum Resistance Thermometers	1,500
6.7	Standard Freezer/Chillers	1,500
6.8	Blast Freezer	1,500
6.9	Furnaces (Asphalt Content Tester, blast etc.) (3 Points)	1,500
6.10	Cold Rooms (1 Point)	1,500
6.11	Incubators (1 Point)	800
6.12	Refrigerators (1 Point)	800
6.13	Standard Size Oven	800
6.14	Autoclaves	800
6.15	Liquid Bath or Ductilometer (Water or Oil)	800
6.16	Curing Box (per Measurement Point)	800
6.17	Hot Plate	800
6.18	Cooled Centrifuge (temperature only)	800
6.19	Thermo-hygrometer (Temperature and Humidity) (3 Points)	1,300
6.20	Thermocouples (without readout)	1,200
6.21	Liquid in Glass Industrial Thermometer (3 points)	300
6.22	Liquid in Glass Clinical Thermometer (3 points)	250
6.23	Digital Thermometer (3 points)	600
6.24	Dial Thermometer (per 3 Measurement Points)	600

6.25	Pyrometer (Infrared Radiation thermometer) (3 points)	700
6.26	Extra Point Calibration after Minimum 3 Points ( <i>Digital, Dial, Liquid in Glass, Thermohygrometers and Infrared Thermometers</i> )	200
6.27	Data Logger	600
6.28	Hygrometers (Humidity) (3 points)	600
6.29	Temperature Indicators	600
6.30	Conductivity Meter (Temperature Part Only)	600
6.31	pH Meters (Temperature Part Only)	600
6.32	Temperature Controller	600
6.33	Viscosity Meter (Temperature Part Only)	600
6.34	Softening Point Tester	600
6.35	Thermistors	600

## 7.0 DC/LF ELECTRICITY METROLOGY

Number	Type of Instrument(s)	Fee(s) (ZMW)
7.1	Reference Multimeters	4,000
7.2	Multifunction Calibrators	4,000
7.3	Earth Resistance Tester	1,700
7.4	Hand-Held Process Calibrators	1,500
7.5	Hand-Held Multimeter (Digital)	1,500
7.6	Hand- Held Multimeter (Analogue)	1,500
7.7	Resistance standards (AC and DC)	1,200
7.8	Resistance decades boxes	1,000
7.9	High Resistance Meters/ Testers	800
7.10	Clamp Meters (AC and Dc)	900
7.11	Voltage and Current Sources	700
7.12	Current shunts (AC and DC)	350

### NOTE:

1. All Prices are Exclusive of VAT and Administrative Charges.
2. Fees may change from time to time.
3. For all re-issued certificates, a fee of K300 per certificate copy shall be surcharged.