



Type: Reccreditation



Certificate of Accreditation

This is to certify that

SELFA (Nigeria) Limited

15, OLA AYINDE STREET, IKEJA, LAGOS, NIGERIA

Has been assessed by the Nigeria National Accreditation System and meets the requirements of the International Standard

ISO/IEC 17025:2017

with demonstrated technical competence in the field of

Calibration

for the specific services listed on the approved Scope of Accreditation.

On behalf of the Nigeria National Accreditation System:



Calibration
No. C0002

Issue date: **November 29, 2024**
Valid through: **November 28, 2026**

Scope of Accreditation

Calibration Laboratory

SELF CALIBRATION LABORATORY

15, OLA AYINDE STREET, IKEJA, LAGOS

Schedule NO.: C0008A

Issue No. 2: 29 11, 2024

Valid to : 28 11, 2026

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)

Measured Quantity	Range	Expanded Measurement Uncertainty (k = 2)	Remark (Calibration Method)
PRESSURE			
Gauge Pressure	-1 ... 20 bar	± 0.05 bar	ASME B40.100-2013: Pressure Gauges and Gauge Attachments & DKD-R 6-1: Guideline on Calibration Pressure Gauges (03/2014)
	-1 ... 40 bar	± 0.10 bar	
	0 ... 60 bar	± 0.15 bar	
	0 ... 100 bar	± 0.25 bar	
	0 ... 350 bar	± 0.88 bar	
	0 ... 700 bar	± 1.80 bar	
	0 ... 1000 bar	± 2.5 bar	
TEMPERATURE			
Temperature - Measuring Equipment (Indicators)	-20°C to 0°C	± 0.61°C	EURAMET CG 11: Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement TC-T Version 2.0, 03/2011
	0°C to 600°C	± 0.24°C	
Temperature - Measuring Equipment (Simulators)	-200°C to 0°C	± 0.61°C	EURAMET CG 11: Guidelines on the Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement TC-T Version 2.0, 03/2011
	0°C to 1370°C	± 0.24°C	
Thermocouples	-200°C to 0°C	± 0.61°C	EURAMET CG 8: Guidelines on the Calibration of Thermocouples TC-T Version 3.1, 02/2020
	0°C to 1370°C	± 0.24°C	

Measured Quantity	Range	Expanded Measurement Uncertainty (k = 2)	Remark (Calibration Method)
Temperature - Source (Climatic Chambers)	-200°C to 0°C	± 0.61°C	EURAMET CG 20: Guidelines on the Calibration of Temperature and / or Humidity Controlled Enclosures TC-T Version 5.0, 09/2017 & DKD-R 5-7: Calibration of Climatic Chambers (2004)
	0°C to 1370°C	± 0.24°C	
LENGTH			
Micrometer Screw Gauge	0 mm to 25 mm	±0.10 µm	NPL GPG-40: Measurement Good Practice Guide No. 40 - Callipers and Micrometers
	0 mm to 50 mm	±0.12 µm	
	0 mm to 150 mm	±0.30 µm	
	0 mm to 300 mm	±0.63 µm	
Vernier Caliper	0 mm to 150 mm	±0.30 µm	NPL GPG-40: Measurement Good Practice Guide No. 40 - Callipers and Micrometers
	0 mm to 300 mm	±0.63µm	
MASS			
Analytical Balance	1 mg to 80 g	±0.5 mg	EURAMENT CG 18: Guidelines on the Calibration of Non-Automatic Weighing Instruments TC-M Version 4.0, 11/2015 & NIST SOP 7: Weighing by Single Substitution
	1 mg to 120 g	±0.75 mg	
	1 mg to 210 g	±1.0 mg	
Top Loading Balance	1 mg to 6000 g	±0.2 mg	EURAMENT CG 18: Guidelines on the Calibration of Non-Automatic Weighing Instruments TC-M Version 4.0, 11/2015 & NIST SOP 7: Weighing by Single Substitution
ELECTRICAL			
DC Voltage (Generate)	0 mV to 200.00000 m	0.025% of range + 25µV	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	0.2 V to 2.00000 V	0.025% of range + 25µV	
	2 V to 20.0000 V	0.040% of range + 50µV	
	20 V to 200.000 V	0.1% of range + 50µV	
	200 V to 1100.00 V	0.1% of range + 50µV	

Measured Quantity	Range	Expanded Measurement Uncertainty (k = 2)	Remark (Calibration Method)
DC Current (Generate)	0 to 2.00000 mA	0.05% +0.01 μ A	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	2.00000 mA to 20.0000 mA	0.05% +0.01 μ A	
	20.0000 mA to 200.000 mA	0.05% +0.01 μ A	
	200.000 mA to 2.00000 A	0.05% +0.01 μ A	
DC Voltage (Measure)	0.1mV ... 600.0mV	0.15% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	600.0mV ... 6000mV	0.15% of reading	
	6.000V... 60.00V	0.15% of reading	
	60.00V ... 600.0V	0.15% of reading	
	600.0V ... 1000V	0.15% of reading	
DC Current (Measure)	0.01mA ... 60.00 mA	1.0% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	60.00mA ... 400.0mA	1.0% of reading	
	400mA ... 6000mA	1.0% of reading	
	6.000A ... 10.00A	1.0% of reading	
AC Voltage (Generate) 50Hz to 1kHz	1mV ... 20.0000mV	0.025% of range + 50 μ V	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	20mV ... 200.000mV	0.025% of range + 50 μ V	
	200mV ... 2.0000V	0.025% of range + 50 μ V	
	2V ... 200V	0.025% of range + 50 μ V	
	200V ... 1000V	0.025% of range + 50 μ V	
AC Current (Generate) 50Hz to 1kHz	0.2 mA ... 2.00000mA	0.075% of range + 0.01 μ A	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015

Measured Quantity	Range	Expanded Measurement Uncertainty (k = 2)	Remark (Calibration Method)
AC Current (Generate) 50Hz to 1kHz	2mA ... 20.0000mA	0.075% of range + 0.01µA	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	20mA ... 200.000mA	0.075% of range + 0.01µA	
	0.2A ... 1.9A	0.075% of range + 0.01µA	
AC Voltage (Measure) 45Hz to 500Hz	0.1mV ... 600.0mV	1.0% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	600.0mV ... 6000mV	1.0% of reading	
	6.000V... 60.00V	1.0% of reading	
	60.00V ... 600.0V	1.0% of reading	
	600.0V ... 1000V	1.0% of reading	
AC Current (Measure) 45Hz to 500Hz	0.01 mA ... 60.00mA	1.0% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	60.00mA ... 400.0mA	1.0% of reading	
	400.0mA ... 6000mA	1.0% of reading	
	6A ... 10A	1.0% of reading	
Resistance (Generate)	1 Ω to 10.0000 Ω	0.015% of range	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	10 Ω to 1.0000 MΩ	0.010% of range	
	1 MΩ to 10.0000 MΩ	0.030% of range	
Resistance (Measure)	0.1 Ω ... 600 Ω	1.0% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	600 Ω ... 6000 Ω	1.0% of reading	
	6.000 kΩ ... 60.00kΩ	1.0% of reading	

Measured Quantity	Range	Expanded Measurement Uncertainty (k = 2)	Remark (Calibration Method)
Resistance (Measure)	60.00kΩ ... 600.0kΩ	1.0% of reading	EURAMET CG 15: Guidelines on the Calibration of Digital Multimeters TC-EM Version 3.0, 02/2015
	600.0kΩ ... 6.000MΩ	1.0% of reading	
	6.000MΩ ... 50.00MΩ	1.0% of reading	
TORQUE			
Hand Torque Tools	0.0Nm ...30.0 Nm	0.84% of reading	ASME B107.300:2021 - Hand Torque Tools and Torque Testers (Section 6)
	30.0Nm ... 75.0Nm	0.74% of reading	
	75.0Nm ... 150.0Nm	0.49% of reading	
	150.0Nm ... 300.0Nm	0.37% of reading	
	300.0Nm ... 600.0Nm	0.30% of reading	
	600.0Nm ... 900.0Nm	0.25% of reading	
	900.0Nm ... 1200.0Nm	0.21% of reading	
1200.0Nm ... 1500.0Nm	0.19% of reading		