



Type: Re-accreditation



Certificate of Accreditation

This is to certify that

SELFA (Nigeria) Limited
Atunwa Street, Ikeja, Lagos State, 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: **March 17, 2022**
Validity through: **March 16, 2024**

Scope of Accreditation
Calibration Laboratory
Selfa (Nig.) Ltd.
10, Atunwa Street, Ikeja, Lagos, Nigeria

Schedule NO.:C0002

Issue No. 2: 17 03, 2022

Valid to : 16 03, 2020

Measured Quantity	Range	Calbration and Measurement Capability (CMC) [±]	Brief description of calibration method	Brief description of calibration equipment
PRESSURE				
Gauge Pressure	-1 ... +20 bar	±0.05 bar	<ul style="list-style-type: none"> ▪ ASME B40.100-2013 and DKD-R 6-1 	<ul style="list-style-type: none"> ▪ Wika Digital Test Gauge CPG500
	-1 ... +40 bar	± 0.10 bar		
	0 ... 60 bar	± 0.15 bar		
	0 ... 100 bar	± 0.25 bar		
	0 ... 350 bar	± 0.875 bar		
	0 ... 700 bar	± 1.75 bar		
	0 ... 1,000 bar	± 2.5 bar		
TEMPERATURE				
Temperature - Measuring Equipment (Indicators)	-20°C to 0°C	± 0.61°C	<ul style="list-style-type: none"> ▪ EURAMET CG 11 	<ul style="list-style-type: none"> ▪ Fluke Calibration 1523 Reference Thermometer
	0°C to 600°C	± 0.24°C		
Temperature - Measuring Equipment (Simulators)	-200°C to 0°C	± 0.61°C		
	0°C to 1370°C	± 0.24°C		
Thermocouples	-200°C to 0°C	± 0.61°C	<ul style="list-style-type: none"> ▪ EURAMET CG 8 	

Measured Quantity	Range	Calibration and Measurement Capability (CMC) [±]	Brief description of calibration method	Brief description of calibration equipment
	0°C to 1370°C	± 0.24°C		▪ Fluke Documenting Process Calibration 744
Temperature - Source (Climatic Chambers)	-200°C to 0°C	± 0.61°C	▪ EURAMET CG 20 & DKD-R 5-7	▪ Fluke Calibration 1523 Reference Thermometer
	0°C to 1370°C	± 0.24°C		
DIMENSION				
Micrometer Screw Gauge	0 mm to 25 mm	±0.10µm	▪ NPL GPG-40	▪ Standard Gauge Block Set - Grade 2 M87 Stainless Steel
	0 mm to 50 mm	±0.12µm		
	0 mm to 150 mm	±0.30µm		
	0 mm to 300 mm	±0.63µm		
Vernier Caliper	0 mm to 150 mm	±0.30µm		
	0 mm to 300 mm	±0.63µm		
Dial Gauge	0 mm to 10 mm	±0.08µm		
MASS				
Analytical Balance	1 mg to 80 g	±0.5 mg	▪ NIST SOP 7	▪ Standard Test Weight Set Troemner Class F1
	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		
				▪
ELECTRICAL				

Measured Quantity	Range	Calibration and Measurement Capability (CMC) [±]	Brief description of calibration method	Brief description of calibration equipment
DC Voltage - Generate	0 mV to 200.0000000 mV	0.025% of range + 25µV	▪ EURAMET CG 15	▪ Fluke Multimeter Calibrator 5100B
	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		
DC Current - Generate	0 to 2.00000 mA	0.05% +0.01 µA	▪ EURAMET CG 15	▪ Multimeter Calibrator Fluke 5100B
	2.00000 mA to 20.0000 mA	0.05% +0.01 µA		
	20.0000 mA to 200.000 mA	0.05% +0.01 µA		
	200.000 mA to 2.00000 A	0.05% +0.01 µA		
DC Voltage - Measure	0.1mV ... 600.0mV	0.15% of reading	▪ EURAMET CG 15	▪ True-rms Digital Multimeter
	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	▪ True-rms Digital Multimeter
	60.00mA ... 400.0mA	1.0% of reading		
	400mA ... 6000mA	1.0% of reading		

Measured Quantity	Range	Calibration and Measurement Capability (CMC) [±]	Brief description of calibration method	Brief description of calibration equipment
	6.000A ... 10.00A	1.0% of reading		
			▪	▪
AC Voltage - Generate (50Hz to 1 kHz)	1mV ... 20.0000mV	0.025% of range + 50µV	▪ EURAMET CG 15	▪ Multimeter Calibrator Fluke 5100B
	20mV ... 200.000mV	0.025% of range + 50µV		
	200mV ... 2.0000V	0.025% of range + 50µV		
	2V ... 200V	0.025% of range + 50µV		
	200V ... 1000V	0.025% of range + 50µV		
AC Current - Generate (50Hz to 1 kHz)	0.2 mA ... 2.00000mA	0.075% of range + 0.01µA	▪ EURAMET CG 15	▪ Multimeter Calibrator Fluke 5100B
	2mA ... 20.0000mA	0.075% of range + 0.01µA		
	20mA ... 200.000mA	0.075% of range + 0.01µA		
	0.2A ... 1.9A	0.075% of range + 0.01µA		
AC Voltage - Measure (45 Hz to 500 Hz)	0.1mV ... 600.0mV	1.0% of reading	▪ EURAMET CG 15	▪ True-rms Digital Multimeter
	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	0.01 mA ... 60.00mA	1.0% of reading	▪ EURAMET CG 15	

Measured Quantity	Range	Calibration and Measurement Capability (CMC) [±]	Brief description of calibration method	Brief description of calibration equipment
(45Hz to 1kHz)	60.00mA ... 400.0mA	1.0% of reading		<ul style="list-style-type: none"> ▪ True-rms Digital Multimeter
	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	<ul style="list-style-type: none"> ▪ EURAMET CG 15 	<ul style="list-style-type: none"> ▪ Multimeter Calibrator Fluke 5100B
	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	<ul style="list-style-type: none"> ▪ EURAMET CG 15 	<ul style="list-style-type: none"> ▪ True-rms Digital Multimeter
	600 Ω ... 6000 Ω	1.0% of reading		
	6.000 kΩ ... 60.00kΩ	1.0% of reading		
	60.00kΩ ... 600.0kΩ	1.0% of reading		
	600.0kΩ ... 6.000MΩ	1.0% of reading		
	6.000MΩ ... 50.00MΩ	1.0% of reading		