

ELECTRICITY STANDARDS SECTION

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Conductivity Meter	0.1 µS (minimum)	845.00
Centrifuge	Up to 18,000 r/min	800.00
DC Voltage Standard (per voltage level)	1.018 V and 10 V	5,590.00
Decade Resistance Box (per dial)	0 Ω to 100 MΩ	1,140.00
Double Bridge	Up to 100 MΩ	2,500.00
Earth Tester	Up to 100 MΩ	1,350.00
	per succeeding range	400.00
Frequency Calibrator	Up to 225 MHz	2,700.00
Frequency Counter	10 MHz	1,550.00
GPS Receiver	1 pps	9,000.00
Ground Strap Tester / Checker	Up to 100 MΩ	800.00
Illuminance / Lux / Light Meter	(380 to 2000) lux	2,600.00
Insulation Tester	Up to 1000 V	1,050.00
	per succeeding range	350.00
Kelvin Bridge	Up to 100 MΩ	2,500.00
mA Calibrator	Up to 1000 mA	1,890.00
Megohmmeter / Megger Tester	Up to 1000 V	1,090.00
	per succeeding range	350.00
Multimeter, Digital	4 ½ digits; Up to 1000 Vdc; Up to 650 Vac; Up to 1 A AC/DC; Up to 100 MΩ	2,500.00
	6 ½ digits; Up to 1000 Vdc; Up to 650 Vac; Up to 1 A AC/DC; Up to 100 MΩ	17,000.00
pH Meter	0 to 14 pH	845.00
pH Simulator	0 to 14 pH	845.00
Process Calibrator (input/output)	Up to 1000 Vdc; Up to 650 Vac; Up to 1 A AC/DC; Up to 100 MΩ	4,900.00
Puncture Tester	Up to 5 kV AC/DC; Up to 1 A AC/DC; Up to 100 MΩ	1,700.00
Resistance Bridge / Wheatstone Bridge	1 Ω to 10 MΩ	1,700.00
Stopwatch / Timer	15 minutes (minimum)	800.00
Standard Resistor (by Ratio)	1 Ω to 1 MΩ	6,500.00
Stroboscope	Up to 18,000 r/min	800.00
Tachometer (non-contact type)	Up to 99,000 r/min	800.00
Time Mark Generator	Up to 225 MHz	2,450.00

PRESSURE & FORCE STANDARDS SECTION

Pressure

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Absolute Pressure Calibrator	0.1 MPa to 100 MPa	6,110.00
Absolute Pressure Industrial Gauge	0.1 MPa to 100 MPa	975.00
Absolute Pressure Test Gauge	0.1 MPa to 100 MPa	3,055.00
Hydraulic Pressure Balance / Deadweight Tester	0.1 MPa to 100 MPa	20,150.00
Hydraulic Pressure Calibrator	0.1 MPa to 100 MPa	6,110.00
Hydraulic Pressure Gauge	0.1 MPa to 100 MPa	975.00
Hydraulic Pressure Test Gauge	0.1 MPa to 100 MPa	3,055.00
Pneumatic Pressure Balance	0 bar to 40 bar	20,150.00

Deadweight Pressure Tester	0 bar to 40 bar	20,150.00
Pneumatic Pressure Calibrator	0 bar to 200 bar	6,110.00
Pneumatic Pressure Gauge	0 bar to 20 bar	975.00
Pneumatic Pressure Test Gauge	0 bar to 20 bar	3,055.00
Testing of Sphygmomanometer	0 mmHg to 250 mmHg	1,300.00
Vacuum Calibrator	0 bar to -1 bar	6,200.00
Vacuum Gauge	0 bar to -1 bar	975.00
Vacuum Test Gauge	0 bar to -1 bar	3,055.00

Force

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Testing Machines	Up to 2000 kN (5 test pts. per range)	3,700.00
	per additional test point	750.00
Durometer A	0 HA to 90 HA	780.00
Durometer D	0 HD to 90 HD	1,560.00

LENGTH STANDARDS SECTION

Type of Equipment / Device	Range or Capacity	Calibration Fee per Piece (PHP)
Gauge Block - Grade 0 (Steel)	0.5 mm to 100 mm	1,160.00
Gauge Block - Grade 1 (Steel)		1,030.00
Gauge Block - Grade 2 (Steel)		1,030.00

THERMOMETRY & HYGROMETRY STANDARDS SECTION

Contact Thermometry

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Digital Thermometer	-30 °C to +250 °C (first 4 cal. points)	2,180.00
	per additional cal. point	650.00
	per additional probe	1,090.00
Industrial Platinum Resistance Thermometer	-30 °C to +250 °C (first 6 cal. points)	11,700.00
	per additional cal. point	975.00
Liquid-in-Glass Thermometer	-30 °C to +250 °C (first 4 cal. points)	2,180.00
	per additional cal. point	650.00
(Wall / Refrigerator / Bimetallic) Thermometer	-30 °C to +250 °C (first 4 cal. points)	1,820.00
	per additional cal. point	650.00
Thermocouple with Indicator	300 °C to 1000 °C (per cal. point)	2,150.00

Non-Contact Thermometry

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Infrared Thermometer	Low-range: (0, 35, 50, 100, 120) °C	2,800.00
	High-range: (0, 100, 200, 350, 500) °C	2,800.00

Enclosures

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Furnace	300 °C to 1000 °C (first cal. point)	2,730.00
	per additional cal. point	1,400.00

Oven / Freezer / Incubator / Cold Storage / Walk-in Enclosures / Water Bath / Refrigerator, etc.	-30 °C to +250 °C (first cal. point)	2,730.00
	per additional cal. point	1,400.00

Hygrometry

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Thermo-hygrometer	(20, 25, 30) °C; (40, 60 and 80) %rh at 23 °C	1,274.00
Thermo-hygrograph	(20, 25, 30) °C; (40, 60 and 80) %rh at 23 °C	3,822.00

Moisture

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)	Remarks
Wood Moisture Meter	9 % to 21 %	840.00	Test
Rice / Grain Moisture Meter	9 % to 21 %	2,500.00	Calibration; 5 samples of varying moisture content
Rice / Grain Moisture Meter	9 % to 21 %	1,800.00	Test; 1 sample

VOLUME & FLOW STANDARDS SECTION

Volume

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Burette	0.1 mL to 100 mL (5 cal. points)	689.00
Volumetric Flask	1 mL to 5000 mL	689.00
Multiple Delivery Dispenser	1 µL to 100000 µL (5 cal. points)	1,900.00
Piston Pipette	1 µL to 10000 µL (3 cal. points)	1,900.00
	per addition cal. point	630.00
Pipette	0.1 mL to 100 mL	689.00
Proving Tanks (Gravimetric)	up to 500 L	5,200.00
Proving Tanks (Volumetric)	100L to 400L	3,500.00
Proving Tanks (Volumetric)	>400L to 2000 L	3,500.00
Proving Tanks (Volumetric)	>2000 L to 5000 L	4,500.00
Road Tankers (Volume capacity determination)	up to 10000 L	920.00
	>10000 L to 15000 L	1,370.00
	>15000 L to 20000 L	1,840.00
	>20000 L to 25000 L	2,300.00
	>25000 L to 30000 L	2,750.00
	>30000 L to 35000 L	3,200.00
	>35000 L to 40000 L	3,650.00
>40000 L to 45000 L	4,100.00	
>45000 L to 50000 L	4,200.00	
Test Measure (Gravimetric)	5 L, 10 L, 20 L	2,340.00
Test Measure (Volumetric)	5 L, 10 L	390.00
Test Measure (Volumetric)	20 L	780.00

Density

Type of Equipment / Device	Range or Capacity	Calibration Fee (PHP)
Hydrometers	(600 to 2000) kg/m³	1,200.00

MASS STANDARDS SECTION

Calibration of Weights

Class / Type	Range	Calibration Fee per Piece (PHP)	Remarks
OIML Class E2	1 mg to 50 g	1,090.00	DAkks Certificate (1 mg to 1 kg only)
	100 g to 500 g	1,480.00	
	1 kg to 10 kg	1,660.00	
	20 kg to 50 kg	1,990.00	NML Certificate (2 kg to 50 kg)
OIML Class F1 / F2	1 mg to 50 g	600.00	DAkks Certificate (1 mg to 50 kg only)
	100 g to 500 g	650.00	
	1 kg to 10 kg	950.00	
	20 kg to 50 kg	1,050.00	NML Certificate (100 kg to 200 kg)
	100 kg to 200 kg	2,100.00	
OIML Class M1 / M2 / M3	1 mg to 500 g	450.00	DAkks Certificate (1 mg to 50 kg only)
	1 kg to 10 kg	600.00	
	20 kg to 50 kg	700.00	
	100 kg to 200 kg	1,500.00	NML Certificate (100 kg to 200 kg)
	500 kg	2,100.00	
Free Nominal (Stainless Steel)	1 mg to 50 g	600.00	DAkks Certificate (1 mg to 50 kg only)
	> 50 g to 500 g	650.00	
	> 500 g to 10 kg	950.00	
	> 10 kg to 50 kg	1,050.00	NML Certificate (100 kg to 200 kg)
	> 50 kg to 200 kg	2,100.00	
Free Nominal (Other Materials)	1 mg to 500 g	450.00	DAkks Certificate (1 mg to 50 kg only)
	> 500 g to 10 kg	600.00	
	> 10 kg to 50 kg	700.00	
	> 50 kg to 200 kg	1,500.00	NML Certificate (100 kg to 500 kg)
	> 200 kg to 500 kg	2,100.00	

Calibration / Testing of NAWI

Type of Service	Range / Accuracy Class	Calibration Fee per Piece (PHP)	Remarks
Calibration of NAWI, electronic type only (on-site calibration)	Up to 2 kg (using OIML Class E ₂)	2,000.00	DAkks Certificate (up to 600 g only) NML Certificate (>600 g up to 2 kg)
	Up to 60 kg (using OIML Class F ₁)	1,530.00	DAkks Certificate (up to 20 kg only) NML Certificate (>20 kg up to 60 kg)
	Up to 200 kg (using OIML Class F ₂)	1,530.00	DAkks Certificate (up to 60 kg only) NML Certificate (>60 kg up to 200 kg)
	Up to 300 kg (using OIML Class M ₁)	1,530.00	NML Certificate
Testing of NAWI, electronic and mechanical types	High Accuracy* (using OIML Class F ₂ ; 1 tonne)	1,200.00	NML Certificate
	Medium Accuracy* & Ordinary Accuracy* (using OIML Class M ₁ and substitution material; 1 tonne)	1,080.00	
	*per additional tonne	20.00	

ON-SITE CALIBRATION

Daily Surcharge Fee per NML personnel	PHP 1,500.00
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VISION

NML of internationally recognized competence and nationally sought for traceability of calibrations.

MISSION

We shall establish, maintain, and disseminate the national standards of units of measurements done in the country.

We shall do this by competently conducting calibrations and measurements at accuracy levels appropriate to the needs of the customer.

ACCREDITATION



The National Metrology Laboratory of the Philippines (NML) is the first and the only laboratory in the Philippines that has been accredited under the terms of ISO/IEC 17025:2005 by the German Accreditation Body, DAkks, to carry out calibrations in the fields of Electrical quantities, Mechanical quantities and Thermodynamic quantities. For the specific scopes, refer to Accreditation Certificates and Annexes (<http://nml.gov.ph/wp-content/uploads/downloads/2015/11/NML-DAkks-Accreditation-Certification-and-Annex-2015-10-151.pdf>).

Calibration Certificates issued by NML within the DAkks accredited scopes bear the DAkks and ILAC-MRA logo signifying that it is accepted by all member economies worldwide through the mutual recognition of DAkks in the European Cooperation for Accreditation (EA), the International Accreditation Forum (IAF), and the International Laboratory Accreditation Cooperation (ILAC).

CONTACT

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SCHEDULE OF FEES AND CHARGES 2019



Revision of the SI

New definitions to come into force on 20 May 2019