Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Regional Standards and Testing Laboratory
Department of Science and Technology, Regional Office VIII
DOST VIII Compound, Government Center, Candahug, Palo, Leyte

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Calibration** as specified in the Scope of Accreditation.

Accreditation Number:	**LA-2013-239C**
Scope Reference:	**ACAL-1122-239C**
Accreditation Validity:	**March 7, 2028**
Date Issued:	**November 15, 2022**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED CALIBRATION LABORATORY
PNS ISO/IEC 17025:2017
LA-2013-239C

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

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SCOPE OF ACCREDITATION

Regional Standards and Testing Laboratory
Department of Science and Technology,
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DOST VIII Compound, Government Center, Candahug, Palo, Leyte

Calibration

Products/ Class of Test	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Calibration Method/ Reference Standard
Masses				
Determination of Mass	Test weights OIML Class F_2	1 mg	0.020 mg	In-House calibration CM-012 OIML R111-1 2004 (E)
		2 mg	0.020 mg	
		5 mg	0.020 mg	
		10 mg	0.025 mg	
		20 mg	0.03 mg	
		50 mg	0.04 mg	
		100 mg	0.05 mg	
		200 mg	0.06 mg	
		500 mg	0.08 mg	
		1 g	0.1 mg	
		2 g	0.12 mg	
		5 g	0.16 mg	
		10 g	0.20 mg	
		20 g	0.25 mg	
		50 g	0.30 mg	
		100 g	0.50 mg	
		200 g	1.0 mg	
		500 g	2.5 mg	
		1 kg	5.0 mg	
		2 kg	10 mg	
		5 kg	25 mg	
		10 kg	50 mg	
		20 kg	100 mg	
	OIML Class M1 and below	1 mg	0.06 mg	In-House calibration CM-012 OIML R111-1 2004 (E)
		2 mg	0.06 mg	
		5 mg	0.06 mg	
		10 mg	0.08 mg	
		20 mg	0.10 mg	
		50 mg	0.12 mg	

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		100 mg	0.16 mg	
		200 mg	0.20 mg	
		500 mg	0.25 mg	
		1 g	0.30 mg	
		2 g	0.40 mg	
		5 g	0.50 mg	
		10 g	0.60 mg	
		20 g	0.80 mg	
		50 g	1.0 mg	
		100 g	1.6 mg	
		200 g	3.0 mg	
		500 g	8.0 mg	
		1 kg	16 mg	
		2 kg	30 mg	
		5 kg	80 mg	
		10 kg	160 mg	
		20 kg	300 mg	
		50 kg	800 mg	
	Free Nominal or Non-OIML Mass Standard	1 mg to 10 mg	0.08 mg	In-House calibration CM-012 OIML R111-1 2004 (E)
		above 10 mg to 20 mg	0.10 mg	
		above 20 mg to 50 mg	0.12 mg	
		above 50 mg to 100 mg	0.16 mg	
		above 100 mg to 200 mg	0.20 mg	
		above 200 mg to 500 mg	0.25 mg	

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		above 500 mg to 1 g	0.30 mg	
		above 1 g to 2 g	0.40 mg	
		above 2 g to 5 g	0.50 mg	
		above 5 g to 10 g	0.60 mg	
		above 10 g to 20 g	0.80 mg	
		above 20 g to 50 g	1.0 mg	
		above 50 g to 100 g	1.6 mg	
		above 100 g to 200 g	3.0 mg	
		above 200 g to 500 g	8.0 mg	
		above 500 g to 1 kg	16 mg	
		above 1 kg to 2 kg	30 mg	
		above 2 kg to 5 kg	80 mg	
		above 5 kg to 10 kg	160 mg	
		above 10 kg to 20 kg	300 mg	
		above 20 kg to 50 kg	800 mg	

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Weighing Devices				
Precision laboratory balances	Special Accuracy Class (using OIML Class E2 / F1)	1 g to 500 g	0.25 mg	In-House / On-site Calibration CM-011
		above 500 g to 1 kg		
	High Accuracy Class (using OIML Class F1)	1 to 500 g	1.3 mg	
		above 500 g to 1 kg	22 mg	
		above 1 kg to 5 kg	33 mg	
		above 5 kg to 10 kg	100 mg	
		Above 10 kg to 60 kg	200 mg	
Industrial balances	Medium and Ordinary Class (using Class M_1 Standard)	1 kg to 20 kg	1.74 g	EURAMET cg-18 Version 4.0 (11/2015)
		above 20 kg to 50 kg	3.28 g	
		above 50 kg to 100 kg	6.16 g	
		above 100 kg to 500 kg	21.62 g	
		above 500 kg to 1000 kg	90 g	
		above 1000 kg to 2000 kg	550 g	
Volumetric Equipment				
Laboratory glassware	Gravimetric Method	100 µL to 1 mL	0.0025 mL	In-House Calibration CM-001 ASTM Designation: E 542-01 EURAMET cg-19 Version 3.0 (09/2018)
		above 1 mL to 10 mL	0.005 mL	
		above 10 mL to 1 L	0.05 mL	
		above 1 L to 2 L	0.15 mL	

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Piston- Operated Volumetric Apparatus (POVA)	Gravimetric Method	100 µL to 1 mL	1.21 µL	In-House calibration CM-022 DKD-R 8-1 ISO 8655
		above 1 mL to 10 mL	1.69 µL	
		above 10 mL to 50 mL	33.94 µL	
Industrial Volumetric Proving Measures	Volumetric Method	100 L to 2000 L	38.13 mL	In-House / Onsite Calibration CM-008 OIML R-120 EURAMET cg-21 Version 2.0 (05/2020)
Standard Test Measure	Volumetric Method	10 L	7.1 mL	In-House Calibration CM-016 OIML R-120 EURAMET cg-21 Version 2.0 (05/2020)
		20 L	7.68 mL	
Pressure and Vacuum Measuring Devices				
Pressure Gauge	Pressure Gauge	1 kPa to 100 kPa (14.5 psi)	0.091 kPa	In-House Calibration CM-009 DKD-R 6-1 Edition 01/2003
		Above 100 kPa to 1 MPa (145.0 psi)	0.17 kPa	
		Above 1 MPa to 5 MPa (725.2 psi)	3.91 kPa	
		Above 5 MPa to 10 MPa (1,450.4 psi)	40.36 kPa	
		Above 10 MPa to 50 MPa (7,251.9 psi)	195.57 kPa	

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	Vacuum Gauge	-96.5 kPa to 0 kPa (-14.0 psi)	0.96 kPa	

* CMC expressed as an expanded uncertainty having a specific coverage probability of approximately 95%.

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