



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **GEOSAR W.L.L**

UNIT NO 183, BUILDING 2000, ROAD 1527, BLOCK 115  
HIDD, 115, BAHRAIN

### **Calibration Laboratory CL-288**

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 4, 2024

Expiration Date July 1, 2025



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## GEOSAR W.L.L

[www.geosarllc.com](http://www.geosarllc.com)

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**Contact Phone** +973-37422678

*Accredited to ISO/IEC 17025:2017*

*Effective Date June 4, 2024*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<b>Mechanical</b>			
Vacuum <sup>5</sup> (Pressure Gauges, Pressure Recorders, Pressure Transmitter, Pressure Switches)	-0.9 bar to 0 bar	0.02 bar	Using Digital Pressure Indicator and Comparator pump by Comparison Method
Pneumatic Pressure <sup>5</sup> (Pressure Gauges, Pressure Recorders, Pressure Transmitter, Pressure Switches)	0 bar to 20 bar	0.03 bar	Using Digital Pressure Indicator and Comparator pump by Comparison Method
Hydraulic Pressure <sup>5</sup> (Pressure Gauges, Pressure Recorders, Pressure Transmitter, Pressure Switches)	140 bar to 1000 bar	0.12 bar	Using Digital Pressure Indicator and Comparator pump by Comparison Method
Weighing Balance <sup>5</sup>	1 kg to 20 kg	0.06 g	Using F1 Class Weights by Direct Method
	20 kg to 500 kg	0.6 kg	Using M1 Class Weights by Direct Method
<b>Thermal</b>			
Temperature Indicator/ Controller with or without Sensor, Temperature Gauge, Thermometer (Stick Type / Glass/Digital) <sup>5</sup>	-30 °C to 120 °C 150 °C to 800 °C	0.16 °C 1.8 °C	Using Temperature Bath by Direct Method
<b>Electrical – DC/LF</b>			
DC Voltage Generate <sup>3</sup>	1 mV to 10 mV 10 mV to 1 V 1 V to 100 V	0.021 mV 0.06 mV 1.8 mV	Using Electrical Multifunction Calibrator by Direct method

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Voltage Generate <sup>3</sup> (continued)	100 V to 500 V 500 V to 1000 V	0.015 V 0.027 V	Using Electrical Multifunction Calibrator by Direct method
AC Voltage Generate <sup>3</sup> at 50 Hz	1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 100 V 100 V to 1000 V	0.02 mV 0.04 mV 2 mV 2.5 mV 0.04 V	Using Electrical Multifunction Calibrator by Direct method
AC Current Generate <sup>3</sup> at 50 Hz	1 mA to 10 mA 10 mA to 100 mA 100 mA to 5 A 5 A to 500 A	0.004 mA 0.04 mA 2.7 mA 0.02 A	Using Electrical Multifunction Calibrator and Current Coil by Direct method
AC Voltage Measure <sup>3</sup> at 50 Hz	1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 100 V 100 V to 1000 V	0.004 mV 0.03 mV 0.9 mV 5.9 mV 0.012 V	Using 6.5 Digit Precision Multimeter by Direct method
AC Current Measure <sup>3</sup> at 50 Hz	1 mA to 10 mA 10 mA to 100 mA 100 mA to 5 A 5 A to 10 A	0.01 mA 0.04 mA 4.7 mA 7 mA	Using 6.5 Digit Precision Multimeter by Direct method
DC Resistance Generate <sup>3</sup>	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	0.02 Ω 0.13 Ω 1.2 Ω 1.2 kΩ 12 kΩ 0.12 MΩ 1.2 MΩ	Using Electrical Multifunction Calibrator and Current Coil by Direct method
DC Resistance Measure <sup>4</sup>	0.5 kΩ to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 25 MΩ 25 MΩ to 50 MΩ 50 MΩ to 100 MΩ	0.4 Ω 3.7 Ω 37 Ω 1 kΩ 0.2 MΩ 0.5 MΩ 0.93 MΩ	Using 6.5 Digit Precision Multimeter by Direct method

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

<sup>3</sup>Capability is suitable for the calibration of measuring devices in the stated ranges.

<sup>4</sup>Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

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<sup>5</sup>Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.