



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **ALLIED OIL & GAS SERVICES LLC**

P.O. BOX: 1524, P.C: 133, BUILDING NO. 705, OFFICE NO. 1, BLOCK NO.: 250, WAY NO: 5005  
GHALA INDUSTRIAL AREA, 133, OMAN

### **Calibration Laboratory CL-156**

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.

Expiration Date June 1, 2027

Effective Date December 23, 2025



*International Accreditation Service*

Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## ALLIED OIL & GAS SERVICES LLC

**Contact Name** Anil Kumar

**Contact Phone** +968-95122751

*Accredited to ISO/IEC 17025:2017*

*Effective Date December 23, 2025*

### 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>Dimensional</b>			
Micrometers	0 to 100 mm	8 µm	Gauge Blocks - Grade I Direct Method
Calipers	0 to 1000 mm	16 µm	
<b>Mechanical</b>			
Balances and scales <sup>7</sup>	1 mg to 200 g 200 g to 700g Up to 300 kg	0.12 mg 1.6 mg 90 g	Using Standard weights ASTM E898-88
Mass/ Weights	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg	0.13 mg 0.13 mg 0.13 mg 0.13 mg 0.13 mg 0.13 mg 0.21 mg 0.21 mg 0.21 mg 0.082 g 0.082 g 0.082 g 0.082 g 0.082 g 0.082 g 0.082 g 0.082 g 0.082 g 2 g 2 g 2 g	OIML Class 'E1' Weights OIML Class 'F1' Weights with precision balances Using ABBA method
UTM – Compression <sup>7</sup>	60 kN to 2500 kN	0.2 %	Load Cell 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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Hydraulic Dead Weight Testers	LP: 9 bar to 60 bar HP: 100 bar to 1200 bar	0.011 % 0.011 %	Dead Weight Tester DH-Budenberg CPB5800 Cross float Method
Hydraulic Gauges / Recorders, Pressure Calibrators, Pressure Gauges, Pressure-Transmitters	10 bar to 1400 bar	0.023 %	Dead Weight Tester CPB 5800 DKD R6-1
Hydraulic <sup>6</sup> Gauges / Recorders, Pressure Calibrators, Pressure Gauges, Pressure-Transmitters	1 bar to 700 bar	0.1 %	Dig. Press Gauge Crystal xp2i & Hydraulic pump DKD R6-1
Pneumatic Gauges / Recorders, Vacuum Gauges Pressure Relief Valves	-0.8 bar to -0.1 bar -0.1 bar to 0.1 bar 0.1 bar to 1 bar	0.016 bar 0.25 mbar 0.25 %	Dead Weight Tester 554/551 DKD R6-1
	1 bar to 100 bar	0.25 % + 0.01 bar	Pressure Controller Wika CPC 8000 DKD R6-1
Volume Syringe, Micropipettes	200 µL to 1000 µL	7 µL	Using triple distilled water, Precision Weighing Balance and E-1 Class Weights Gravimetric Method
Volume Pycnometer, Bottle Pipettes, Burettes, Measuring Flasks, Glass / Plastic / Metallic Wares, Volume Jars	10 mL to 100 mL	3.5 mL	
<b>Thermal</b>			
RTD, Digital Thermometer <sup>6</sup>	-40 °C to 350 °C 350 °C to 600 °C	0.2 °C 0.23 °C	Dry Block Calibrator PT 100 with Readout Comparison Method
Thermocouples, Digital Thermometer <sup>6</sup>	-40 °C to 350 °C 350 °C to 1200 °C	0.2 °C 2 °C	Dry Block Calibrator PT 100 with Readout Type K Thermocouple with Readout Comparison method
Mechanical (Dial) Thermometers <sup>6</sup>	33 °C to 350 °C	0.6 °C	Dry Block Calibrator Direct method
Temperature Installation – Furnaces, Ovens, Incubators, Stirred Water baths, Fridges and Freezers <sup>7</sup>	-40 °C to 350°C 300 °C to 1200 °C	0.7 °C 2 °C	PT 100 with Readout Type K Thermocouple with Readout By mapping
Autoclave <sup>7</sup> Temperature Pressure	20 °C to 140 °C	0.62 °C	Temperature Sensor Direct Method Pressure Sensor Comparison method
	1 bar to 5 bar	3.8 %	

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Humidity/Temperature meters, RH Sensors/Indicators, Data Loggers, Thermo-Hygrometers	20 %RH to 90 %RH @ 25 °C  15 °C to 50 °C	2.8 %RH  0.81 °C	Temperature/Humidity sensor with readout Comparison method
Infrared Thermometers/Thermal Cameras	50 °C to 500 °C	2 °C	Infrared Calibrator Direct method
<b>Electrical – DC/LF</b>			
DC Voltage Generate <sup>3</sup>	0 mV to 10 mV 10 mV to 330 mV 330 mV to 30 V 30 V to 1000 V	0.0094 %+5 µV 0.0032 % 0.0018 % 0.004 %	Using Multi Product Calibrator Fluke 5550A Direct Method
AC Voltage Generate <sup>3</sup>	(45 Hz to 10 kHz) 33 mV to 330 mV 330 mV to 330 V 330 V to 1000 V	0.08 % 0.07 % 0.08 %	Using Multi Product Calibrator Fluke 5550A Direct Method
DC Current Generate <sup>3</sup>	0 µA to 300 µA 0.3 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 3 A 3 A to 20 A	150 µA/A + 0.2 µA 100 µA/A + 0.5 µA 100 µA/A + 0.25 µA 100 µA/A + 2.5 µA 380 µA/A + 40 µA 1000 µA/A + 0.5 mA	Using Multi Product Calibrator Fluke 5550A Direct Method
	20 A to 1000 A	0.4 %	Using Multi Product Calibrator Fluke 5550A Direct Method and 50 turn Fluke 5500A Coil
AC Current Generate <sup>3</sup> (45 Hz to 1 kHz)	30 µA to 330 µA 0.33 µA to 3300 µA 0.330 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 0.33 A to 1 A 1 A to 3 A 3 A to 20 A	0.13 % + 0.1 µA 0.13 % + 0.15 µA 0.04 % + 2 µA 0.04 % + 20 µA 0.06 % + 100 µA 0.07 % + 100 µA 0.08 % + 2 mA 0.54 %+ 2 mA	Using Multi Product Calibrator Fluke 5550A Direct Method
AC Current Generate <sup>3</sup> (45 Hz to 400 Hz)	20 A to 1000 A	0.4 %	Using Multi Product Calibrator Fluke 5550A Direct Method and 50 turn Fluke 5500A Coil

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DC Resistance Generate <sup>3</sup>	0 Ω to 10.999 Ω 11 Ω to 32.999 Ω 33 Ω to 109.999 Ω 110 Ω to 329.999 Ω 0.33 kΩ to 1.09999 kΩ 1.1 kΩ to 3.29999 kΩ 3.3 kΩ to 10.9999 kΩ 11 kΩ to 32.9999 kΩ 33 kΩ to 109.9999 kΩ 110 kΩ to 329.999 kΩ 0.33 MΩ to 1.09999 MΩ 1.1 MΩ to 3.29999 MΩ 3.3 MΩ to 10.9999 MΩ 11 MΩ to 32.9999 MΩ 33 MΩ to 109.999 MΩ 110 MΩ to 329.999 MΩ	40 μΩ/Ω + 0.01 Ω 30 μΩ/Ω + 0.015 Ω 28 μΩ/Ω + 0.015 Ω 28 μΩ/Ω + 0.02 Ω 28 μΩ/Ω + 0.02 Ω 28 μΩ/Ω + 0.2 Ω 28 μΩ/Ω + 0.1 Ω 28 μΩ/Ω + 1 Ω 28 μΩ/Ω + 2 Ω 32 μΩ/Ω + 10 Ω 32 μΩ/Ω + 10 Ω 60 μΩ/Ω + 150 Ω 130 μΩ/Ω + 250 Ω 250 μΩ/Ω + 2.5 Ω 500 μΩ/Ω + 250 Ω 0.62 % + 100 kΩ	Using Multi Product Calibrator Fluke 5550A Direct Method
Capacitance Generate <sup>3,5</sup>	0.33 nF to 0.4999 nF (50 Hz to 1000 Hz)  0.5 nF to 1.0999 nF (50 Hz to 1000 Hz)  1.1 nF to 3.2999 nF (50 Hz to 1000 Hz)  3.3 nF to 10.999 nF (50 Hz to 1000 Hz)  11 nF to 32.999 nF (50 Hz to 1000 Hz)  33 nF to 109.99 nF (50 Hz to 1000 Hz)  110 nF to 329.99 nF (50 Hz to 1000 Hz)  0.33 μF to 1.0999 μF (50 Hz to 1000 Hz)  1.1 μF to 3.2999 μF (50 Hz to 1000 Hz)  3.3 μF to 10.999 μF (50 Hz to 400 Hz)  11 μF to 32.999 μF (50 Hz to 400 Hz)	0.5 % + 0.01 nF  0.5 % + 0.01 nF  0.7 % + 0.01 nF  0.5 % + 0.01 nF  0.25 % + 0.1 nF  0.25 % + 0.1 nF  0.32 % + 0.3 nF  0.32 % + 1 nF  0.35 % + 3 nF  0.35 % + 10 nF  0.40 % + 30 nF	Using Multi Product Calibrator Fluke 5550A Direct Method



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Capacitance Generate <sup>3,5</sup> (continued)	33 $\mu$ F to 109.99 $\mu$ F (50 Hz to 200 Hz)	0.50 % + 100 nF	Using Multi Product Calibrator Fluke 5550A Direct Method
	110 $\mu$ F to 329.99 $\mu$ F (50 Hz to 200 Hz)	0.70 % + 300 nF	
	330 $\mu$ F to 1.1 mF (50 Hz to 100 Hz)	1 % + 300 nF	
DC Voltage Measure <sup>4, 6</sup>	0 mV to 600 mV 600 mV to 1000 V	0.1 % +0.004 mV 0.05 %	Using Fluke 8846 DMM Direct Method
AC Voltage Measure <sup>4, 6</sup> (45 Hz to 65 Hz)	600 mV to 1 V 6 V to 1000 V	0.7 % 0.7 %	Using Fluke 8846 DMM Direct method
DC Current Measure <sup>4, 6</sup>	0 $\mu$ A to 600 $\mu$ A 600 $\mu$ A to 6000 $\mu$ A 0 mA to 60 mA 60 mA to 400 mA 6 A to 10 A	0.2 % + 0.025 $\mu$ A 0.2 % 1.0 % 1.0 % 1.0 %	Using Fluke 8846 DMM Direct method
AC Current Measure <sup>4, 6</sup> (45 Hz to 2 kHz)	100 $\mu$ A to 600 $\mu$ A 600 $\mu$ A to 6000 $\mu$ A 0 mA to 60 mA 60 mA to 400 mA 6 A to 10 A	1.0 % 1.0 % 1.0 % 1.0 % 1.0 %	Using Fluke 8846 DMM Direct method
Capacitance Measure <sup>4, 6</sup>	0.4 nF to 3.3 nF 3.3 nF to 33 nF 33 nF to 330 nF 0.33 $\mu$ F to 3.30 $\mu$ F 3.3 $\mu$ F to 33 $\mu$ F 33 $\mu$ F to 330 $\mu$ F 0.33 mF to 3.3 mF 3.3 mF to 33 mF 33 mF to 110 mF	0.10 nF 0.95 nF 0.01 nF 0.13 $\mu$ F 0.45 $\mu$ F 0.01 $\mu$ F 0.10 mF 1.9 mF 4.9 mF	Using Fluke 8846 DMM Direct method
Active and Reactive Energy (Single and three phase) -cos $\Phi$ or sin $\Phi$ = 0.5 to 1, Lead/Lag) <sup>6</sup>	30 V to 300 V, 20 mA to 10 A, UPF @ 45 Hz to 55 Hz	(relative to output in Watts) 0.20 %	Three Phase Comparator MTE-K2006 Comparison Method
	30 V to 300 V, 10 A to 100 A, UPF @ 45 Hz to 55 Hz	0.013 %	
	30 V to 300 V, 20 mA to 10 A, 0.5 LEAD/LAG @ 45 Hz to 55 Hz	0.019 %	
Active and Reactive Energy	30 V to 300 V, 10 to 100 A, 0.5 LEAD/LAG	0.014 %	Three Phase Comparator

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(Single and three phase) -cos $\Phi$ or sin $\Phi$ = 0.5 to 1, Lead/Lag) <sup>6</sup> (continued)	@ 45 Hz to 55 Hz  30 V to 300 V, 20 mA to 10 A, 0.8 LEAD/LAG @ 45 Hz to 55 Hz	0.019 %	MTE-K2006 Comparison method	
	30 V to 300 V, 10 A to 100 A @ 45 Hz to 55 Hz, 0.8 (LEAD/LAG)	0.014 %		
High voltage probe, detectors, holiday detectors <sup>7</sup>	AC HV @ 50Hz  1 kV to 28 kV	2.5 %	HV Probe with Indicator Comparison method	
	28 kV to 100 kV	9 %		
	DC HV 1 kV to 100 kV	5.1%		
Thermocouple Simulation - Generate/Measure Type B	600 °C to 800 °C	0.44 °C	Using Multi product calibrator Fluke 5550A Simulation method	
	800 °C to 1000 °C	0.34 °C		
	1000 °C to 1550 °C	0.30 °C		
	1550 °C to 1820 °C	0.33 °C		
	Type C	Up to 150 °C		0.30 °C
		150 °C to 650 °C		0.26 °C
		650 °C to 1000 °C		0.31 °C
		1000 °C to 1800 °C		0.50 °C
		1800 °C to 2316 °C		0.84 °C
	Type E	-250 °C to -100 °C		0.50 °C
		-100 °C to -25 °C		0.16 °C
		-25 °C to 350 °C		0.14 °C
		350 °C to 650 °C		0.16 °C
		650 °C to 1000 °C		0.21 °C
	Type J	-210 °C to -100 °C		0.27 °C
		-100 °C to -30 °C		0.16 °C
		-30 °C to 150 °C		0.14 °C
		150 °C to 760 °C		0.17 °C
760 °C to 1200 °C		0.23 °C		
Type K	-200 °C to -100 °C	0.33 °C		
	-100 °C to -25 °C	0.18 °C		
	-25 °C to 120 °C	0.16 °C		
	120 °C to 1000 °C	0.26 °C		
	1000 °C to 1372 °C	0.40 °C		

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Type L	-200 °C to -100 °C -100 °C to 800 °C 800 °C to 900 °C	0.37 °C 0.26 °C 0.17 °C	Using Multi product calibrator Fluke 5550A  Simulation Method
Type N	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C	0.40 °C 0.22 °C 0.19 °C 0.18 °C 0.27 °C	
Type R	0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1767 °C	0.57 °C 0.35 °C 0.33 °C 0.40 °C	
Type S	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1400 °C to 1767 °C	0.47 °C 0.36 °C 0.37 °C 0.46 °C	
Type T	-250 °C to -150 °C -150 °C to 0 °C	0.63 °C 0.24 °C	
Type U	0 °C to 120 °C 120 °C to 400 °C	0.16 °C 0.14 °C	
RTD Simulation – Measure <sup>4</sup> PT-100	-200 °C to 0 °C 0 °C to 600 °C -200 °C to -80 °C -80 °C to 0 °C 0 °C to 100 °C 100 °C to 300 °C 300 °C to 400 °C 400 °C to 630 °C 630 °C to 800 °C	0.56 °C 0.27 °C 0.05 °C 0.05 °C 0.07 °C 0.09 °C 0.10 °C 0.12 °C 0.23 °C	Using Multi product calibrator Fluke 5550 A/ Fluke 753A  Simulation method
<b>Time and Frequency</b>			
Rotational Speed / Centrifuge <sup>6</sup>	50 rpm to 15000 rpm	0.6 %	Digital Tachometer By Direct Method
<b>Chemical &amp; Gas</b>			
Viscometer <sup>6</sup>	235.3 cSt 577.9 cSt 10904 cSt	0.5 cSt 1.3 cSt 30 cSt	CRM Direct Method
pH meter <sup>6</sup>	4 pH 7 pH 10 pH	0.02 pH 0.02 pH 0.02 pH	Buffer Solutions Direct Method
Conductivity Meter <sup>6</sup>	84 uS/cm 1413 uS/cm	1 uS/cm 5 uS/cm	Conductivity Solutions Direct Method

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<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.

<sup>5</sup>Stated uncertainties are valid for the ranges of frequencies given, but the actual frequency applied by the calibrator may be dependent on the measurement device under calibration.

<sup>6</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.

<sup>7</sup>Available only as site calibration.

#### Notes:

LP= Low Pressure

HP= High Pressure

UPF= Unity Power Factor

cSt=centi-stoke

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