



INTERNATIONAL  
ACCREDITATION  
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# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **AKNAN ENGINEERING CONTRACTING COMPANY**

AL SHARJAH STREET  
DAMMAM, 32437, SAUDI ARABIA

### **Calibration Laboratory CL-287**

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 January 28, 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.

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

## AKNAN ENGINEERING CONTRACTING COMPANY

**Contact Name** Abdul Rab Lone

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*Accredited to ISO/IEC 17025:2017*

*Effective Date January 28, 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>			
Calipers – Vernier, Dial & Electronic (Only External Jaws)	Up to 300 mm	13 µm	Gauge Blocks - 0 Grade using Direct Method
External Micrometers	Up to 100 mm	6 µm	Gauge Blocks - 0 Grade using Direct Method
Dial Indicator/Gauges (Plunger)	Up to 10 mm	0.02 mm	Dial calibration tester using Direct method
<b>Mechanical</b>			
Pneumatic Pressure Indicating Devices - Pressure Gauge / Switch/Transmitter / Transducer/ Pressure Relief Valve / Recorder	0 bar to 20 bar	0.05 bar	Using Pressure / Process Calibrator by comparison method (DKD-R-6-1)
Vacuum Gauge	0 bar to -0.8 bar	0.05 bar	Using Pressure / Process Calibrator by comparison method (DKD-R-6-1)
Hydraulic Pressure Indicating Devices - Pressure Gauge/ Switch/Transmitter/ Transducer/ Pressure Relief Valve/Recorder	0 bar to 700 bar 700 bar to 1000 bar	2.5 bar 3.5 bar	Using Pressure / Process Calibrator by comparison method (DKD-R-6-1)
Weighing Scale and Balances	1 g to 100 g 100 g to 1000 g 1 kg to 5 kg 5 kg to 100 kg	58 mg 64 mg 5.8 g 13 g	By using standard weight of F1 and M1 Class (OIML R76)
Compression Machines	5 kN to 50 kN 300 kN to 3000 kN	1 kN 1.3 kN	Reference Load Cell with indicator 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)
Nuclear Density Gauges	1120 kg/m <sup>3</sup> to 2723 kg/m <sup>3</sup>	9.6 kg/m <sup>3</sup>	Nuclear Validator by direct method
<b>Thermal</b>			
RTD/Thermocouple Sensor with Indicators/ Transmitter/ Temperature Gauges/ Mercury Filled Glass Thermometer/Switch	35 °C to 630 °C	0.5 °C	Temp Calibrator Jofra Model RTC-700A by comparison method
<b>Electrical – DC/LF</b>			
DC Voltage – Measure <sup>3</sup>	100 mV to 1 V 1 V to 100 V 100 V to 1000 V	0.002 V 0.006 V 0.06 V	Direct method using Fluke 8846 Precision Multimeter
DC Current – Measure <sup>3</sup>	100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A 3 A to 10 A	0.6 µA 8 µA 0.07 mA 0.8 mA 5.2 mA 6.7 mA	Direct method using Fluke 8846 Precision Multimeter
AC Voltage – Measure <sup>3</sup>	100 mV to 1 V (50 Hz) (60 Hz) (400 Hz)  1 V to 10 V (50 Hz) (60 Hz) (400 Hz)  10 V to 100 V (50 Hz) (60 Hz) (400 Hz)  100 V to 750V (50 Hz) (60 Hz) (400 Hz)	0.12 mV 0.12 mV 0.12 mV  0.005 V 0.005 V 0.005 V  0.11 V 0.11 V 0.11 V  0.72 V 0.72 V 0.72 V	Direct method using Fluke 8846 Precision Multimeter
AC Current – Measure <sup>3</sup>	(50 Hz to 1 kHz) 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A  (50 Hz) 3 A to 10 A	0.16 mA 1.6 mA 7.3 mA  24 mA	Direct method using Fluke 8846 Precision Multimeter
DC Resistance – Measure <sup>3</sup>	100 Ω to 10 kΩ 10 kΩ to 100 MΩ	0.04 kΩ 3 kΩ	Direct method using Fluke 8846 Precision Multimeter

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC High Voltage - Measure <sup>3</sup>	Up to 35 kV	3.2 %	Fluke high voltage probe and multimeter
DC High Current - Measure <sup>3</sup>	Up to 40 A 40 A to 400 A 400 A to 600 A	0.9 A 1.3 A 1.8 A	Fluke AC/DC clamp Meter 355 & ESAB Check master 9000
<b><i>Time and Frequency</i></b>			
Frequency – Measure <sup>3</sup>	10 Hz to 40 Hz 40 Hz to 300 kHz	0.035 % 0.012 %	Direct method using Fluke 8846 Precision Multimeter
Stopwatches and Timers	1 min to 5 min 5 min to 1 h	1s 2 s	Stopwatch by comparison method
Tachometer (Non-contact type)	50 rpm to 10,000 rpm	6.6 rpm	Standard Stroboscope and RPM Source 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 devices intended to generate the indicated quantity in the stated ranges.

