



CERTIFICATE OF ACCREDITATION

This is to attest that

INTERNATIONAL AGENT CONTRACTING ESTABLISHMENT DBA INTERNATIONAL AGENT GROUP FOR CALIBRATION

19TH UNEZA STREET NEAR KING FAHAD HOSPITAL
AL-KHOBAR, KINGDOM OF SAUDI ARABIA

Calibration Laboratory CL-170

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 December 5, 2022

Expiration Date September 1, 2024



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

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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INTERNATIONAL AGENT CONTRACTING ESTABLISHMENT DBA INTERNATIONAL AGENT GROUP FOR CALIBRATION

Contact Name Manzoor Ahmad

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Accredited to ISO/IEC 17025:2017

Effective Date December 5, 2022

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Calipers – Vernier, Dial & Electronic (Only External Jaws)	Up to 300 mm	13 µm	Gauge Blocks - 0 Grade Procedure: INAT/DIME/LCP-003
External Micrometers	Up to 100 mm	6 µm	Gauge Blocks - 0 Grade Procedure: INAT/DIME/LCP-001
Dial Indicator/Gauges (Plunger)	Up to 10 mm	0.02 mm	Dial calibration tester Procedure: INAT/DIME/LCP-002
Mechanical			
Pneumatic Pressure Indicating Devices - Pressure Gauge/ Switch/Transmitter/ Transducer/ Pressure Relief Valve/Recorder	-0.8 bar to 20 bar	0.015 bar	Pressure / Process Calibrator by comparison method. INAT/MECH/LCP-001, INAT/MECH/LCP-002, INAT/MECH/LCP-003, INAT/MECH/LCP-004, INAT/MECH/LCP-005, INAT/MECH/LCP-006, INAT/MECH/LCP-007, INAT/MECH/LCP-008

* 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 ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Hydraulic Pressure Indicating Devices - Pressure Gauge/ Switch/Transmitter/ Transducer/ Pressure Relief Valve/Recorder	Analog 1 bar to 60 bar 60 bar to 1200 bar	0.1 bar 1 bar	Dead Weight Tester / Pressure Test Gauge by comparison method INAT/MECH/LCP-001, INAT/MECH/LCP-002, INAT/MECH/LCP-003, INAT/MECH/LCP-004, INAT/MECH/LCP-005, INAT/MECH/LCP-006, INAT/MECH/LCP-007, INAT/MECH/LCP-008
	Digital 1 bar to 60 bar 60 bar to 1200 bar	0.01 bar 0.21 bar	Dead Weight Tester / Pressure Calibrator by direct method INAT/MECH/LCP-001, INAT/MECH/LCP-002, INAT/MECH/LCP-003, INAT/MECH/LCP-004, INAT/MECH/LCP-005, INAT/MECH/LCP-006, INAT/MECH/LCP-007, INAT/MECH/LCP-008
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 Procedure: INAT/MECH/SCP-017
Force Measuring Device – Compression Mode	5000 kgf to 225000 kgf	50 kgf	Reference Load Cell with indicator by direct method INAT/MECH/LCP-010
Torque Wrenches	30 N·m to 350 N·m 350 N·m to 1000 N·m 1000 N·m to 1500 N·m	1.8 N·m 2.4 N·m 3.7 N·m	Reference Torque Tester by comparison method INAT/MECH/LCP-010
Nuclear Density Gauges	1120 kg/m ³ to 2723 kg/m ³	8.3 kg/m ³	Nuclear Validator by direct method INAT/MECH/LCP-022
Thermal			
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 INAT/TEMP/LCP-003 INAT/TEMP/LCP-007 INAT/TEMP/LCP-008, INAT/TEMP/LCP-009 INAT/TEMP/LCP-012

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Electrical – DC/LF			
Simulated Temperature (Temperature Indicators / Recorders / Controllers) Thermocouple, Type K RTD	-180 °C to 1300 °C -180 °C to 800 °C	0.1 °C 0.09 °C	Temp Calibrator Fluke 754 – direct method INAT/TEMP/LCP-001, INAT/TEMP/LCP-004
DC Voltage – Source ³	0 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V 220 V to 1100 V	0.002 mV 0.016 mV 0.16 mV 1.6 mV 9.3 mV	Direct method using Fluke 5700 Calibrator
DC Current – Source ³	0 µA to 220 µA 220 µA to 2.2 mA 2.2 mA to 22 mA 22 mA to 220 mA 220 mA to 2.2 A	0.001 µA 0.2 µA 1.1 µA 0.53 mA 0.4 mA	Direct method using Fluke 5700 Calibrator
AC Voltage – Source ³	0 mV to 2.2 mV (10 Hz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 1 MHz) 2.2 mV to 22 mV (10 Hz to 50 kHz) (50 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 22 mV to 220 mV (10 Hz to 20 Hz) (20 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 220 mV to 2.2 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz)	0.006 mV 0.01 mV 0.029 mV 0.032 mV 0.013 mV 0.026 mV 0.062 mV 0.1 mV 0.14 mV 0.05 mV 0.08 mV 0.21 mV 0.28 mV 0.39 mV 0.89 mV 1.3 mV 0.38 mV 0.17 mV 0.28 mV 0.62 mV 1.1 mV 2.7 mV 5.7 mV	Direct method using Fluke 5700 Calibrator

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AC Voltage – Source ³ continued	2.2 V to 22 V		Direct method using Fluke 5700 Calibrator	
	(10 Hz to 20 Hz)	12 mV		
	(20 Hz to 40 Hz)	3.8 mV		
	(40 Hz to 20 kHz)	1.7 mV		
	(20 kHz to 50 kHz)	2.8 mV		
	(50 kHz to 100 kHz)	5.9 mV		
	(100 kHz to 300 kHz)	15 mV		
	(300 kHz to 500 kHz)	36 mV		
	(500 kHz to 1 MHz)	60 mV		
	22 V to 220 V			
	(10 Hz to 20 Hz)	110 mV		
	(20 Hz to 40 Hz)	35 mV		
	(40 Hz to 20 kHz)	18 mV		
	(20 kHz to 50 kHz)	48 mV		
	(50 kHz to 100 kHz)	55 mV		
(100 kHz to 300 kHz)	110 mV			
(300 kHz to 500 kHz)	100 mV			
(500 kHz to 1 MHz)	250 mV			
220 V to 1100 V				
(15 Hz to 50 Hz)	440 mV			
(50 Hz to 1 KHz)	88 mV			
AC Current – Source ³	9 µA to 220 µA		Direct method using Fluke 5700 Calibrator	
	(10 Hz to 20 Hz)	0.06 µA		
	(20 Hz to 40 Hz)	0.097 µA		
	(40 Hz to 1 kHz)	0.047 µA		
	(1 kHz to 5 kHz)	0.17 µA		
	(5 kHz to 10 kHz)	0.43 µA		
	220 µA to 2.2 mA			
	(10 Hz to 20 Hz)	2.1 µA		
	(20 Hz to 40 Hz)	0.81 µA		
	(40 Hz to 1 kHz)	0.34 µA		
	(1 kHz to 5 kHz)	1.7 µA		
	(5 kHz to 10 kHz)	1.8 µA		
	2.2 mA to 22 mA			
	(10 Hz to 20 Hz)	0.6 µA		
	(20 Hz to 40 Hz)	0.85 µA		
	(40 Hz to 1 kHz)	1.7 µA		
	(1 kHz to 5 kHz)	1.7 µA		
	(5 kHz to 10 kHz)	1.8 µA		
	22 mA to 220 mA			
	(10 Hz to 20 Hz)	0.16 mA		
(20 Hz to 40 Hz)	0.081 mA			

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AC Current – Source ³ continued	22 mA to 220 mA (40 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.065 mA 0.14 mA 0.36 mA	Direct method using Fluke 5700 Calibrator
	220 mA to 2.2 A (20 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.02 mA 0.22 mA 0.21 mA	
DC Voltage – Measure ⁴	0 mV to 100 mV	0.005 mV	Direct method using Fluke 8846 Precision Multimeter
	100 mV to 1 V	0.002 V	
	1 V to 100 V	0.003 V	
	100 V to 1000 V	0.033 V	
DC Current – Measure ⁴	Up to 100 µA	26 µA	Direct method using Fluke 8846 Precision Multimeter
	100 µA to 1 mA	0.1 µA	
	1 mA to 10 mA	2.5 µA	
	10 mA to 100 mA	0.01 mA	
	100 mA to 1 A	0.25 mA	
	1 A to 3 A	1.6 mA	
	3 A to 10 A	5.3 mA	
AC Voltage – Measure ⁴	0.22 mV to 100 mV (50 Hz) (60 Hz) (400 Hz)	0.006 mV	Direct method using Fluke 8846 Precision Multimeter
		0.007 mV	
		0.009 mV	
	100 mV to 1 V (50 Hz) (60 Hz) (400 Hz)	0.004 mV	
		0.004 mV	
		0.004 mV	
	1 V to 10 V (50 Hz) (60 Hz) (400 Hz)	0.005 V	
		0.005 V	
		0.005 V	
	10 V to 100 V (50 Hz) (60 Hz) (400 Hz)	0.054 V	
		0.052 V	
		0.051 V	
	100 V to 1000 V (50 Hz) (60 Hz) (400 Hz)	0.057 V	
		0.052 V	
		0.050 V	

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AC Current – Measure ⁴	Up to 100 µA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.1 µA 0.01 µA 0.21 µA 1.1 µA	Direct method using Fluke 8846 Precision Multimeter
	100 µA to 1 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.4 µA 0.7 µA 0.5 µA 2.7 µA	
	1 mA to 10 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	0.017 mA 0.006 mA 0.007 mA 0.073 mA	
	10 mA to 100 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	0.14 mA 0.07 mA 0.05 mA 0.27 mA	
	100 mA to 1 A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.4 mA 0.7 mA 0.5 mA 7.4 mA	
	1 A to 3 A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	13 mA 5.3 mA 3.3 mA 25 mA	
	3 A to 10 A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	39 mA 17 mA 11 mA 81 mA	
	DC Resistance – Source ³ (Fixed Value)	0 Ω to 0.09 Ω	
0.09 Ω to 1.9 Ω		95 µΩ	
1.9 Ω to 19 Ω		28 µΩ	
19 Ω to 190 Ω		17 µΩ	
190 Ω to 190 KΩ 190 KΩ to 1.9 MΩ		13 µΩ 20 µΩ	

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DC Resistance – Source ³ (Fixed Value) continued	1.9 MΩ to 10 MΩ 10 MΩ to 19 MΩ 19 MΩ to 100 MΩ	40 μΩ 47 μΩ 110 μΩ	Direct method using Fluke 5700A Calibrator
DC Resistance – Measure ⁴	Up to 100 Ω 100 Ω to 10 kΩ 10 kΩ to 100 MΩ 100 MΩ to 1.0 GΩ	0.05 Ω 0.04 kΩ 3 kΩ 0.005 MΩ	Direct method using Fluke 8846 Precision Multimeter
AC High Current – Measure ⁴ (10 Hz to 100 Hz)	Up to 40 A 40 A to 400 A 400 A to 2000 A	0.6 A 0.9 A 4.2 A	Fluke AC/DC clamp Meter 355
DC High Current - Measure ⁴	Up to 40 A 40 A to 400 A 400 A to 2000 A	0.5 A 0.7 A 3.8 A	Fluke AC/DC clamp Meter 355 & ESAB Check master 9000
DC High Voltage - Measure ⁴	Up to 35 kV	1 %	Fluke high voltage probe and multimeter INAT/ELEC/LCP-010
<i>Time and Frequency</i>			
Frequency – Measure ⁴	3 Hz to 10 Hz 10 Hz to 500 Hz 500 Hz to 1 GHz	0.012 Hz 0.006 Hz 0.6 Hz	Direct method using Fluke 8846 Precision Multimeter
Frequency – Source ³	10 Hz to 1 MHz	0.6 kHz	Direct method using Fluke 5700A Calibrator
Tachometer (Non-contact type)	50 rpm to 10,000 rpm	1.2 rpm	Standard Stroboscope by direct method INAT/MECH/SCP-016
Stopwatches and Timers	1 min to 5 min 5 min to 1 h	1 s 2 s	Stopwatch by comparison method INAT/TMFQ/SCP-001

¹The 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.

²When 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.

³Capability is suitable for the calibration of measuring devices in the stated ranges.

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