CERTIFICATE OF ACCREDITATION

This is to attest

UNIVERSAL INSPECTION CO.LTD.

BLDG.NO.176, BLOCK NO.248, AZAIBA NORTH
MUSCAT 130, OMAN

Calibration Laboratory CL-221

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 6, 2025

IAS ACCREDITED

International Accreditation Service
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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017 *Effective Date January 6, 2025*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Caliper (Digital, Dial, Vernier)	0 mm to 300 mm	17 µm	Caliper Checker UIC/P/DVC
Height Gauge (Digital, Dial, Vernier)	0 mm to 300 mm	13 µm	Caliper Checker UIC/P/DHG
Micrometer	2.5 mm to 25 mm	1.3 µm	Gauge Block Set UIC/P/DMM
Dial Gauge	0 mm to 25 mm	6.0 µm	Dial Gauge Calibrator UIC/P/DDG
Mechanical			
Pressure Gauge	Up to 1000 bar	1.5 bar	Dead Weight tester High Pressure Comparison Pump and Digital Pressure Gauge UIC/P/PGCP
Pressure Gauge Pneumatic	0 bar to 100 bar	0.02 bar	High Pressure Pneumatic Hand Pump and Digital Pressure Gauge UIC/P/PGCP
Vacuum Gauge	-0.85 bar to 0 bar	0.02 bar	High Pressure Pneumatic Hand Pump and Digital Vacuum Gauge UIC/P/PGCP
Weighing Balance	1 mg to 500 mg 1 g to 200 g 201 g to 5000 g	0.14 mg 160 mg 170 mg	E2 Class Weights UIC/P/MWB
Tachometer (Non-Contact)	12 rpm to 500 rpm 500 rpm to 12000 rpm	3.3 rpm 4.2 rpm	Tachometer Calibrator UIC/P/MTM

** 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.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Torque Wrench/ Torque Gauge	15 N m to 600 N m 600 N m to 1200 N m	3.5 % 2 %	Torque Wrench Calibration System UIC/P/MTW
Thermal			
RTD	-10 °C to 25 °C 25 °C to 250 °C 250 °C to 500 °C	0.4 °C 0.7 °C 2.3 °C	Temperature Bath & Process Calibrator UIC/P/TTE
Thermocouple	500 °C to 1200 °C	2.9 °C	Temperature Bath & Process Calibrator with TC UIC/P/TTH
Temperature Bath	50 °C to 600 °C	0.6 °C	SSPRT PT-100(4W) with Fluke DMM 8846A UIC/P/TTB
Electrical – DC/LF			
DC Voltage – Source[3]	1 mV to 20 mV 20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 240 V 240 V to 1000 V	0.08 mV 0.60 mV 0.01 V 0.06 V 0.72 V 3.0 V	CLARK HESS Multifunction Electrical Calibrator UIC/P/EDMM
AC Voltage – Source[3] @ 50 Hz	1 mV to 20 mV 20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 240 V 240 V to 1000 V	0.06 mV 0.60 mV 0.01 V 0.06 V 0.72 V 3.0 V	CLARK HESS Multifunction Electrical Calibrator UIC/P/EDMM
DC Current - Source[3]	1 µA to 200 µA 200 µA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	0.60 µA 0.01 mA 0.06 mA 0.60 mA 0.01 A 0.06 A	CLARK HESS Multifunction Electrical Calibrator UIC/P/EDMM
AC Current – Source[3] @ 50 Hz	1 µA to 200 µA 200 µA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	0.62 µA 0.01 mA 0.06 mA 0.60 mA 0.01 A 0.06 A	CLARK HESS Multifunction Electrical Calibrator UIC/P/EDMM
Resistance - Source[3]	1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1000 MΩ	0.03 kΩ 0.30 kΩ 0.003 MΩ 0.03 MΩ 1.0 MΩ 23 MΩ	ZEAL ZMDRB Decade Resistance Box UIC/P/EDMM

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Voltage -Measure[4]	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.30 mV 0.003 V 0.03 V 0.30 V 3.0 V	Fluke 8846A Precision Multimeter UIC/P/EVARS
AC Voltage- Measure[4] @ 50 Hz	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.29 mV 0.003 V 0.03 V 0.29 V 3.0 V	Fluke 8846A Precision Multimeter UIC/P/EVARS
DC Current – Measure[4]	0 µA to 100 µA 100 uA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 400 mA 400 mA to 1 A 1 A to 3 A 3 A to 10 A	0.30 µA 0.003 mA 0.03 mA 0.30 mA 1.2 mA 0.003 A 0.009 A 0.03 A	Fluke 8846A Precision Multimeter UIC/P/EVARS
AC Current - Measure[4] @ 50Hz	0 µA to 100 µA 100 uA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 400 mA 400 mA to 1 A 1 A to 3 A 3 A to 10 A	0.30 µA 0.003 mA 0.03 mA 0.30 mA 1.2 mA 0.002 A 0.01 A 0.03 A	Fluke 8846A Precision Multimeter UIC/P/EVARS
DC Resistance – Measure[4]	1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1000 MΩ	0.03 kΩ 0.30 kΩ 0.003 MΩ 0.004 MΩ 0.30 MΩ 3.0 MΩ	Fluke 8846A Precision Multimeter UIC/P/EVARS

[1]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.

[2]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.

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

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