CERTIFICATE OF ACCREDITATION

This is to attest

UNIVERSAL INSPECTION CO.LTD.

BLOCK NO.6, SHOP NO. A4, PLOT NO. 38
EAST AHMADI 60006, KUWAIT

Calibration Laboratory CL-222

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 20, 2025

IAS ACCREDITED

International Accreditation Service
Issued under the authority of IAS management

Visit 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

UNIVERSAL INSPECTION CO.LTD.

www.ui.com.sa

Contact Name Mr. Dinesh Kumar Kesavan **Contact Phone** +966-508836773

Accredited to ISO/IEC 17025:2017 *Effective Date January 20, 2025*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Vernier Caliper[5] (Digital/Dial/Analog)	0 mm to 300 mm	73 um	Using Caliper Checker &Length Bar as per JIS B 7507
Height Gauge[5] (Digital/Analog)	0 mm to 300 mm	20 µm	Using Caliper Checker &Length Bar as per JIS B 7517
External Micrometer[5]	0 mm to 25 mm 25 mm to 50 mm	2.6 µm 3.6 µm	Using Gauge Blocks & LengthBars as per BS 870
Dial Gauge[5] (Digital/Analog)	0 mm to 25 mm	9.8 um	Using Dial Gauge Calibrator as per JIS B 7503
Mechanical			
Torque Wrench[5]	Up to 350 N·m 350 N·m to 900 N·m	5.8 N·m 36 N·m	Torque Wrench Calibra-tionSystem as per ISO 6789
Tachometer[5]	Contact – 10 rpm to 12000 rpm Photo – 200 rpm to 12000 rpm 12000 rpm to 90000 rpm	 4.4 rpm 3.3 rpm 6.6 rpm	Tachometer Calibrator as per ASTM F2046
Weighing Balance[5]	1 mg to 500 mg 1 g to 200 g 1 kg 5 kg	0.09 mg 0.10 mg 0.12 g 0.49 g	Using F2 / M1 Class Weights as per OIML R 76
Pressure Gauge - Hydraulic[5]	0 bar to 700 bar	6.0 bar	Reference Pressure gauge with HydraulicCalibration Pump as per MSL Technical guide

** 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)
Pressure Gauge - Pneumatic[5]	0 bar to 5 bar	0.17 bar	High Pressure Pneu-maticCalibration Pump as per BS EN 837
Vacuum Gauge[5]	0 bar to -0.95 bar	0.16 bar	Pressure Calibrator as per ISO 3567
Sound Level Meter[5](1 kHz)	94 dB 114 dB	1.1 dB 1.2 dB	Sound Level Calibrator as perANSI S1.4
Thermal			
Temperature bath, Oven, Furnace, Temperature Calibrator[5]	-20 °C to 600 °C	0.73 °C	Resistance Temperature Detector (RTD), S Type Thermocouple &Temperature Calibrator ASTM E145
Electrical Temperature Sim-ulation – Measure[4,5] Ther-mocouples Type K Type S Type T Type R Type B Type N Type E Type J	 -160 °C to 1200 °C 170 °C to 1750 °C -130 °C to 400 °C 150 °C to 1750 °C 950 °C to 1800 °C -100 °C to 950 °C -200 °C to 950 °C -190 °C to 1200 °C	 1.5 °C 2.3 °C 1.4 °C 2.3 °C 2.4 °C 1.2 °C 1.2 °C 1.3 °C	Using Temperature Calibrator as per Euramet cg-11
Electrical Temperature Sim-ulation – Generate[3,5] Thermocouples Type K Type S Type T Type R Type B Type N Type E Type J	 -160 °C to 1200 °C 170 °C to 1750 °C -130 °C to 400 °C 150 °C to 1750 °C 950 °C to 1800 °C 0 °C to 1300 °C -200 °C to 950 °C -190 °C to 1200 °C	 1.5 °C 2.4 °C 1.4 °C 2.4 °C 2.5 °C 1.2 °C 1.2 °C 1.3 °C	
Electrical – DC/LF			
DC Voltage Source[3,5]	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	0.013 mV 0.023 mV 0.000065 V 0.00061 V 0.007 V 0.12 V	Multifunction Calibra-tor CLARKE- HESS 8080 Euramet cg-15
AC Voltage Source[3,5]	10 mV to 20 mV	0.094 mV	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
(50 Hz)	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	0.21 mV 0.0053 V 0.053 V 0.53 V 1.3 V	
DC Current Source[3,5]	100 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 10 A 10 A to 20 A	5.9 µA 0.0007mA 0.0067 mA 0.07mA 0.00093 A 0.011A 0.06 A	
AC Current Source[3,5] (50 Hz)	10 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 10 A 10 A to 20 A	0.07 µA 0.013 mA 0.12 mA 1.3 mA 0.013 A 0.08 A 0.15 A	
DC Resistance Source[3,5]	1 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 50 MΩ 50 MΩ to 100 MΩ	0.013 Ω 0.0004 kΩ 0.004 kΩ 0.04 kΩ 0.0008 MΩ 0.3 MΩ 1.6 MΩ	
DC Voltage Measure[4,5]	1 mV to 100mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.0086 mV 0.04 mV 0.0004 V 0.006 V 0.07 V	Precision Multimeter Fluke 8846A as per Euramet cg-15
AC Voltage Measure[4,5] (60 Hz)	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.05 mV 0.1 mV 0.01 V 0.09 V 0.9 V	Precision Multimeter Fluke 8846A as per Euramet cg-15
DC Current Measure[4,5]	1 µA to 100 µA 100 µA 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	0.065 µA 0.0031 mA 0.082 mA 0.064 mA 0.25 mA 7 mA 0.004 A 0.023 A	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Current Measure[4,5] (50 Hz)	10 µA to 100 µA 100 µA 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	0.5 µA 0.005 mA 0.05 mA 0.25 mA 3.5 mA 4 mA 0.0065 A 0.03 A	
DC Resistance Measure[4,5]	100 Ω to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 50 MΩ 50 MΩ to 100 MΩ	1.3 Ω 0.014 kΩ 0.15 kΩ 0.005 MΩ 0.45 MΩ 0.9 MΩ	
DC Current Clamp Meter[5]	20 A to 1000 A	4.2 A	Multifunction Calibrator CLARKE-HESS 8080 & Current Coil 140-50 by Direct Method
AC Current Clamp Meter[5]	20 A to 1000 A	3.6 A	

[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.

[5]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.