CERTIFICATE OF ACCREDITATION

This is to attest

PURE Z TECHNOLOGIES

3169, 8468, IMAM ALI BIN ABI TALIB STREET,
DAMMAM, 32254, SAUDI ARABIA

Calibration Laboratory CL-330

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 December 1, 2027
Effective Date November 7, 2026

IAS ACCREDITED

International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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PURE Z TECHNOLOGIES

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Accredited to ISO/IEC 17025:2017 *Effective Date November 7, 2026*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Displacement Measuring system of Testing Machine	1 mm ≤ x ≤ 500 mm	36 µm	Using Height gauge, and dial gauge as per ASTM E2309M-20
Crosshead Speed of tensile machine or Universal testing machines	1 mm/min ≤ x ≤ 500 mm/min	0.50 %	Using Height gauge fixture and dial gauge, And Stopwatch as per ASTM E2658-15
Extensometer/Encoder (LC: 0.1 µm)	0 mm < x ≤ 25 mm	1 µm	Using Digital Dial gauge and fixture as per ISO 9513:2012 & ASTM E83
Caliper	0 mm < x ≤ 600 mm	12 µm	Using Caliper checker and Slip Gauge Set (0 Grade) by Comparison Method and as per ISO-13385-1-2019
Depth Micrometer	0 mm < x ≤ 150 mm	33 µm	Using Slip Gauge set (0 Grade) by comparison method As per ISO: 2967:1983 (Reaff.2019).
External Micrometer	0 mm < x ≤ 150 mm	8 µm	Using Slip Gauge set (0 Grade) by comparison method As per ISO: 2967:1983 (Reaff.2019).
Height Gauge	0 mm < x ≤ 600 mm	16 µm	Using Caliper checker by Comparison Method IS: 2921:2016 (Reaff.2021).
Test Sieves	4 mm ≤ x ≤ 125 mm	33 µm	Using Digital Vernier Caliper by comparison method & as per ASTM E11 & ISO 3310

** 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)
Thickness Guage	0 mm < x ≤ 150 mm	1.7 µm	Using Slip Gauge Set (0 Grade) by comparison method as per ISO 463
Mechanical			
Centrifuge, Stirrers and rotating devices (Non-Contact Type)	10 rpm ≤ x ≤ 20000 rpm	2.2 %	Using Digital Tachometer, Non-contact Type, Direct method
Impact (Izod/Charpy) (Direct & Indirect Methods) (Both Metal and Plastic)	0.5 J ≤ x ≤ 750 J	0.50 % + 0.02 J	ISO 148 -2, ISO 13802, ASTM E23-24
UTM (Compression & Tension)	1 N ≤ x ≤ 100 kN	0.45 %	ISO 7500-1:2015 (E) & ASTM E4 Using Load cell of Class 0.5 & 1.0
	100 kN ≤ x ≤ 1000 kN	0.50 %	ISO 7500-1:2015 (E) & ASTM E4 Using Load cell of Using Load cell of Class 0.5 & 1.0
Pressure gauge (Medium: Hydraulic)	25 bar ≤ x ≤ 700 bar	3.4 bar	Using Digital Pressure Gauge, Hydraulic pressure pump by Comparison method as per DKD-R 6-1
Pressure gauge (Medium: Pneumatic)	0 bar < x ≤ 40 bar	0.44 bar	Using Digital Pressure Calibrator using Pneumatic pressure pump, DMM by Comparison method as per DKD-R 6-1
Micropipette	20 µL ≤ x ≤ 1000 µL	0.75 µL	Using Precision Balances (Readability: (0.01 mg/ 1 mg) and Distilled Water of known Density By Gravimetric Method as per ISO 8655-6
Glassware, Pipettes / Burettes / Measuring Cylinder/ pycnometer / Specific gravity bottle or cup / Weight per liter cup / Conical Flask / Dispenser/ DEA n Stark Burette / Density Bottle / Volumetric Flask /Beaker/ Digi burette/Karl Fischer Titrator/Auto Titrator	0.5 mL ≤ x ≤ 100 mL	0.059 mL	Using Precision Balances (Readability: (0.01 mg/ 1 mg) and Distilled Water of known Density by Gravimetric Method as per ISO 4787-2010
Volumetric Flask, Cylindrical Flask, Conical Flask, Cane, etc.	1000 mL ≤ x ≤ 2 L	1 mL	Using Precision Balances (Readability: (0.01 mg/ 1 mg/0.1 g) and Distilled Water of known Density by Gravimetric Method as per ISO 4787-2010

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Non-Automatic Weighing Instruments (NAWI)	1 mg ≤ x ≤ 20 g 20 g < x ≤ 50 g 50 g < x ≤ 220 g	0.1 mg 0.1 mg 82 mg	Using Standard Weight of Accuracy Class E2 OIML R-76-1: 2006
Non-Automatic Weighing Instruments (NAWI)	220 g ≤ x ≤ 3.2 kg 3.2 kg < x ≤ 100 kg	94 mg 10 g	Using Standard Weight of Accuracy Class F1 OIML R-76-1:2006
Non-Automatic Weighing Instruments (NAWI)	100 kg < x ≤ 1000 kg 1000 kg < x ≤ 2000 kg 2000 kg < x ≤ 3000 kg	370 gm 380 gm 400 gm	Using Standard Weight of Accuracy Class M1 OIML R-76-1:2006
Thermal			
Temperature indicator of Dry Block, Liquid Bath, Oven, Muffle Furnace, Industrial Furnace, Environmental chamber, Dry Block Comparator	-80 °C ≤ x ≤ 300 °C 300 °C < x ≤ 1200 °C	0.5 °C 1.2 °C	Using RTD and “S” type & digital Thermometer “S” type Thermocouple, digital Indicator (Single Position calibration)
IR Thermometer / IR Gun/ Radiation Pyrometer / Thermal Imager	35 °C ≤ x ≤ 500 °C	2.8 °C	Using IR Thermometer (Emissivity:0.95), By Comparison Method
Liquid in Glass Thermometers of total and Partial Immersion Type	-40 °C ≤ x ≤ 250 °C	0.5 °C	Using Standard SPRT with Indicator Alcohol Bath/ Water Bath/ Oil Bath by Comparison method
Calibration of RTD with or without indicator	-40 °C ≤ x ≤ 350 °C	0.79 °C	Using RTD, Digital Indicator, Temp Bath by Comparison Method
Calibration of Thermocouple/Temp Recorder/indicator with Probe/Temp Gauge with or without indicator	350 °C ≤ x ≤ 1200 °C	1.9 °C	Using Thermocouple, Digital Indicator, Temp Bath by Comparison Method
Calibration of Humidity Chambers	@ 25 °C 5 %RH ≤ x ≤ 95%RH	1.6 %RH	Using Hygrometer Sensor with Indicator by Comparison Method
Electrical – DC/LF			
AC Volt Generate @ 50 Hz[3]	1 mV ≤ x ≤ 330 mV 0.33 V < x ≤ 33 V 33 V < x ≤ 1000 V	0.73 % 0.17 % 0.21 %	Multiproduct Calibrator Direct Method
DC Volt Generate[3]	1 mV ≤ x ≤ 330 mV 0.33 V < x ≤ 33 V 33 V < x ≤ 1000 V	0.1 % 0.18 % 0.06 %	Multiproduct Calibrator Direct Method
AC Current Generate @ 50 Hz[3]	30 µA ≤ x ≤ 330 µA 0.33 mA < x ≤ 330 mA 0.33 A < x ≤ 20 A	0.58 % 0.25 % 0.3 %	Multiproduct Calibrator Direct Method

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Current Generate[3]	1 µA ≤ x ≤ 330 µA 0.33 mA < x ≤ 330 mA 0.33 A < x ≤ 20 A	7.6 % 0.2 % 0.3 %	Multiproduct Calibrator Direct Method
Resistance Generate[3]	1 Ω ≤ x ≤ 100 Ω 100 Ω < x ≤ 100 kΩ 100 kΩ < x ≤ 190 MΩ	4.2 % 0.09 % 1.2 %	Multiproduct Calibrator Direct Method
Resistance Generate – Discrete[3]	2 GΩ 20 GΩ	1.5 % 1.5 %	Resistance box Direct Method
Frequency - Generate	45 Hz ≤ f < 1 kHz	0.01 %	Multiproduct Calibrator Direct Method
Inductance – Generate @ 1 kHz[3]	1 mH ≤ f < 10 H	2.5 %	Inductance box Direct Method
Capacitance – Generate @ 1kHz[3]	1 nF < x ≤ 10 µF	0.58 %	Capacitance box Direct Method
DC Power – Generate[3] 1 V to 1000 V/100 mA to 20 A	100 mW ≤ x ≤ 20 kW	0.17 %	Multiproduct Calibrator
Time and Frequency			
Stopwatch, etc.	50 s ≤ x ≤ 3600 s	4.2 s	Using Stopwatch/Timer by Direct Method and as per NIST 960-12

[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.