



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **AL KAABI FOR TECHNOLOGY SUPPORT**

P.O. BOX 4875

EASTERN PROVINCE 31412, KINGDOM OF SAUDI ARABIA

### **Calibration Laboratory CL-162**

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 October 22, 2023

Expiration Date February 1, 2025



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

**President**

# 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)

## AL KAABI FOR TECHNOLOGY SUPPORT

[www.kaabi.com](http://www.kaabi.com)

**Contact Name** Shadi Nofal

**Contact Phone** + 966-138584005

*Accredited to ISO/IEC 17025:2017*

*Effective Date October 22, 2023*

### 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>			
Dial Gauge / Dial Indicators	0 mm to 25 mm	6 µm	Dial Gauge Calibrator (JIS B7503 & BS 907)
Calipers	Up to 300 mm	18 µm	Gauge Blocks Grade 0 (ASME B89.1.14)
Fine Sieves	20 µm to 1.7 mm	20 µm	Microscope (ASTM E11)
Coarse Sieves	2.0 mm to 125 mm	0.5 mm	Digital Caliper (ASTM E11)
<b>Mechanical</b>			
Scales and Balances	Up to 220 g	0.2 mg	Class E2 Weights (ASTM E898)
	Up to 720 g	8.0 mg	
	Up to 6 kg	25 mg	
	Up to 16 kg	52 mg	
	Up to 36 kg	90 mg	Class F1 Weights (ASTM E898)
	Up to 1000 kg	0.8 kg	Class M1 Weights (ASTM E898)
Pressure	Up to 200 bar	0.11 bar	Dead Weight Tester (BS/EN 837-1)
	201 bar to 400 bar	0.19 bar	
	401 bar to 800 bar	0.29 bar	
	801 bar to 1000 bar	0.44 bar	
Vacuum	-0.95 bar to 0 bar	14 mbar	Test Pump/ Digital Master Gauge (BS/EN 837-1)
Mass (Standard Weights) Class M1, M2 & M3	20 kg	130 g	Precision balance / Class E2 standard weights (OIML R111)
	10 kg	65 g	
	5 kg	25 g	
	2 kg	27 g	
	1 kg	27 g	

\* 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.

# 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)

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Batch Plants	0 kg to 1000 kg 1001 kg to 2000 kg 2001 kg to 3000 kg 3001 kg to 4000 kg 4001 kg to 5000 kg 5001 kg to 6000 kg 6001 kg to 7000 kg 7001 kg to 8000 kg 8001 kg to 9000 kg 9001 kg to 10000 kg	0.8 kg 1.8 kg 2.8 kg 4.0 kg 5.3 kg 6.7 kg 8.2 kg 9.9 kg 12 kg 14 kg	Class M1 Weights as per the requirements of ASTM Standard C94/94M and Handbook 44 – 2019, Section 2.22. Automatic Bulk Weighing Systems Clause N.1.1.2
Parameters of Gyrotory Compactor			Digital Dynamometer Height Standard Dynamic Angle Validator (DAV) Model: II HMS
Force	0.25 kN to 25 kN	0.23 %	(ASHTO T312) (ASTM D6925)
Height	114.36 mm	41 µm	
Angle	1.36°	0.005°	
Rotational Speed	10 rpm to 28800 rpm	0.3 %	Photo Tachometer (KTS/WI/033) (KTS/WI/025) (KTS/WI/031)
Force - Compression	0.1 kN to 10 kN	0.36 %	10 kN Load Cell (BS/EN/ISO 7500)
	1 kN to 100 kN	0.13 %	100 kN Load Cell (BS/EN/ISO 7500)
	7.5 kN to 750 kN	0.13 %	750 kN Load Cell (BS/EN/ISO 7500)
	50 kN to 5000 kN	0.13 %	5000 kN Load Cell (BS/EN/ISO 7500)
Force - Tension	0.1 kN to 10 kN	0.4 %	10 kN Load Cell (BS/EN/ISO 7500)
	1 kN to 100 kN	0.25 %	100 kN Load Cell (BS/EN/ISO 7500)
	7.5 kN to 750 kN	0.23 %	750 kN Load Cell (BS/EN/ISO 7500)
	10 kN to 1000 kN	0.1 %	1000 kN Load Cell (BS/EN/ISO 7500)
Load Cell (Compression)	0 kN to 500 kN	0.15 %	Master Load Cell and Master Digital Indicator (ISO 376:2011)
	501 kN to 1500 kN	0.14 %	
	1501 kN to 5000 kN	0.13 %	

# 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)

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Viscometer	Up to 12,500 cP	96 cP	Certified Viscosity Standard (ASTM D2196 & AASHTO T316)
Nuclear Density Gage	569.34 kg/m <sup>3</sup>	7.1 %	Mg/Polyethylene Standard Moisture Block (ASTM D6938 & ASTM D7759)
	1784.82 kg/m <sup>3</sup>	0.44 %	Magnesium Standard Block (ASTM D6938 & ASTM D7759)
	2191.75 kg/m <sup>3</sup>	0.46 %	Mg/Al Standard Block (ASTM D6938 & ASTM D7759)
	2732.53 kg/m <sup>3</sup>	0.16 %	Aluminum Standard Block (ASTM D6938 & ASTM D7759)
Dynamic Shear Rheometer (DSR)	133,800 mPa·s to 621,800 mPa·s	1400 mPa·s	Reference Certified Silicon Fluid (ASTM D7175)
<b>Thermal</b>			
Thermometers – Digital	0 °C to 160 °C	0.16 °C	SIKA TPM 165S-U Multifunction Calibrator
Dial Type	0 °C to 160 °C	1.2 °C	ASTM E2877-12
Infrared	0 °C to 160 °C	2 °C	ASTM E2847
Ovens and Furnaces	Up to 160 °C Up to 800 °C	0.6 °C 1.1 °C	Thermocouple Type K and Multifunction Simulator (ASTM E145)
<b>Chemical/Gas</b>			
pH Meter	0 pH to 14 pH	0.08 pH	Certified Buffer Solutions (KTS/WI/009)
TDS / Conductivity Meter	Up to 1417 µS/cm	2.3 µS/cm	Conductivity Solutions (KTS/WI/009)

<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.