Annex (1)
Updated on: 06/05/2026

To the Accreditation Certificate No. JAS Cal. - 003 Dated 04-12-2021

For Calibration Laboratory at the Arab Center for Engineering Studies / Amman

Scope of Accreditation

Calibration of Thermometers, Non-automatic Balances, Force and Caliper

Measurand	*Measuring Range*	*Calibration and measurement Capability (CMC) a*	*Calibration Methods/ Standards/ Remarks*
Temperature (Calibration Location: Permanent)			
Temperature Resistance Thermometers with Direct Reading Devices & data loggers with external sensors	*(-25 to 400) °C* *(> 400 to 660) °C*	*0.4 °C* *0.5 °C*	*In House Calibration Method WI-049, rev.(4), dated on: 01/06/2024*
Temperature (Calibration Location: Permanent)			
Temperature Thermocouple Devices & Data loggers with external sensors	*(-25 to 150) °C* *(> 150 to 400) °C* *(>400 to 660) °C*	*0.6 °C* *0.7 °C* *5 °C*	*In House Calibration Method WI-049, rev.(4), dated on: 01/06/2024*
Mass (Calibration Location: On-Site)			
*Non-automatic weighing instruments **	*1 g to 100 g* *> 100 g to 600 g* *> 600 g to 2100 g* *> 2100 g to 6100 g* *> 6.1 kg to 11.1 kg* *>11.1 kg to 21 kg* *> 21 kg to 31 kg*	*0.90 mg* *1.7 mg* *6.3 mg* *11 mg* *37 mg* *61 mg* *0.12 g*	*WI-012, rev.(**5**), dated on: **01/04/2025**, according to OIML R76 -1, using calibrated reference weight Class F2*
Force (Calibration Location: On-Site)			
Force machines In compression mode (Class I, II, & III)	*(10 to 100) kN* *(200 to 2000) kN*	*0.35 % * Fi* *0.5 % * Fi*	*WI-014, rev. (**4**) dated on: **01/04/2025**, according to ISO 7500-1:2018*
Dimensions Measurement devices (Calibration Location: Permanent)			
Vernier Caliper for external, internal, & depth measurements (Including digital & dial Indicators)	*Up to 150 mm* *>150 mm to 500 mm*	*8.3 µm* *60 µm*	*In House Calibration Method WI-046, rev. (3), dated on: 25/08/2020*

* ***Precision Balances to be calibrated only at customer's site***

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of k = 2.
The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

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List of employees in the laboratory who are technically responsible for issuing the calibration certificates in the scope of accreditation:

1. **Eng. Jamela Al-Nsour : Director of Materials & Calibration**
2. **Eng. Safa'a Alnfee: Deputy of the Director of Materials & Calibration**
3. **Eng. Hameed Al Magharby: Materials & calibration Engineer**