



# ACCREDITATION CERTIFICATE

**LB-CAL-019**

**Emirates International Accreditation Centre**

has accredited

**AL HOTY-STANGER LABORATORIES**

Industrial City Abu Dhabi (ICAD 1) | Plot 9R7B | Near ICAD 1 Gate no. 2

Beside Emirates Steel | Abu Dhabi | United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

**General requirements for the competence of testing and calibration laboratories**

to undertake the calibration in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 09-05-2023 to 15-04-2026

Initial Accreditation Date: 16-04-2014



Amina Ahmed Mohammed

**CHIEF EXECUTIVE OFFICER  
APPROVAL**



## Accreditation Scope

**LB-CAL-019**

### Al Hoty- Stanger Laboratories

**Industrial City Abu Dhabi (ICAD 1) | Plot 9R7B | Near ICAD 1 Gate no. 2**

**Beside Emirates Steel | Abu Dhabi | United Arab Emirates**

Date: 09-05-2023

Valid to: 15-04-2026

Accreditation History			
Scope	Issue No.	Details	Date
Balance	9	Renewal of the accreditation	09-05-2023
Force	9	Renewal of the accreditation and modification in Range and Specification and CMC Values	
Temperature	5	Renewal of the accreditation and extension in scope (add Base metal thermocouples)	
Pressure	5	Renewal of the accreditation	
Dimensional	1	Granted accreditation	
Balance, Force	8	Certificate validity was extended for 6 months from 16-04-2023 up to 15-10-2023	16-04-2023
Temperature, Pressure	4		
Balance	7	Renewal accreditation from EIAC	12/05/2020
Force	7		
Temperature	3		
Pressure	3		
Balance	6	Transfer to ISO/ IEC 17025:2017 and first issuance under the name of EIAC (which was formerly known as DAC)	15/09/2019
Force	6		
Temperature	2		
Pressure	2		

## Accreditation Scope

### Balance Calibration

**LB-CAL-019**

## Al Hoty- Stanger Laboratories

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Issue no.: 09

Date: 09-05-2023

Valid to: 15-04-2026

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Weighing Scales	SOP/02:2014 rev.2 "Calibration of Non- automatic Weighing Machines" according to EURAMET cg 18 (2015)	1mg to 500mg	0.3mg	Customer Premises
		Up to 6kg	4.0mg	
		Up to 30kg	34.0mg	
		Up to 60kg	0.2g	

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## Accreditation Scope

### Force Calibration

#### LB-CAL-019

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Force Verification/ Calibration of Universal testing machines (Tension)	SOP/01/rev.3/2020 "Calibration of Force Measuring Systems" Comparison method using force proving instruments based on BS EN ISO 7500-1:2018	100 kN to 400 kN	0.53 % of indicator reading	Customer Premises
		>400 kN to 2000 kN	0.30 % of indicator reading	
Force Verification/ Calibration of Compression testing machines	SOP/01/rev.3/2020 "Calibration of Force Measuring Systems" Comparison method using force proving instruments based on BS EN ISO 7500-1:2018	60 kN to 100 kN	1.3 % of indicator reading for increasing forces	Customer Premises
		>100 kN to 150 kN	0.57 % of indicator reading for increasing forces	
		>150 kN to 250 kN	0.39 % of indicator reading for increasing forces	

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### Force Calibration

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Force Verification/ Calibration of Compression testing machines	SOP/01/rev.3/2020 "Calibration of Force Measuring Systems" Comparison method using force proving instruments based on BS EN ISO 7500-1:2018	>250 kN to 400 kN	0.27 % of indicator reading for increasing forces	Customer Premises
		>400 kN to 500 kN	0.22 % of indicator reading for increasing forces	
		>500 kN to 600 kN	0.20 % of indicator reading for increasing forces	
Force Verification/ Calibration of Compression testing machines	SOP/01/rev.3/2020 "Calibration of Force Measuring Systems" Comparison method using force proving instruments based on BS EN ISO 7500-1:2018	>600 kN to 3000 kN	0.30 % of indicator reading for increasing forces	Customer Premises

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## Accreditation Scope

### Temperature Calibration

#### LB-CAL-019

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Issue no.: 05

Date: 09-05-2023

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Liquid-in-glass thermometers	SOP-04	-20 °C – 150 °C	0.1 °C	Laboratory Premises
Direct reading thermometers with RTD sensor	SOP-05	-20 °C – 150 °C	0.1 °C	
		>150 °C – 500 °C	0.8 °C	
Direct reading thermometers with TC sensor	SOP-07	-20 °C – 150 °C	0.3 °C	
		>150 °C – 500 °C	0.8 °C	
Dial thermometers	SOP-06	-20 °C – 150 °C	0.1 °C	
		>150 °C – 500 °C	0.8 °C	
IR thermometers	SOP-08	-35 °C – 100 °C	1.5 °C	
		>100 °C – 150 °C	2.0 °C	

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## Accreditation Scope

### Temperature Calibration

#### LB-CAL-019

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Climatic Chambers (also Ovens, Freezers, Chillers, Incubators) (9 sensors)	SOP-09	-80 °C – 5 °C	1.0 °C	Customers Premises
		>5 °C – 110 °C	0.6 °C	
		>110 °C – 400 °C	1.1 °C	
Liquid baths (5 sensors)	SOP-10	-80 °C – 5 °C	0.7 °C	Customers Premises
		>5 °C – 95 °C	0.4 °C	
		>95 °C – 200 °C	0.7 °C	
Muffle furnace (1 sensor)	SOP-11	200 °C – 500 °C	0.9 °C	Customers Premises
		>500 °C – 800 °C	2 °C	
		>800 °C – 1200 °C	10 °C	
Autoclaves (temperature indicator)	SOP-12	50 °C - 100 °C	0.4 °C	Customers Premises
		>100 °C – 140 °C	0.7 °C	

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**Accreditation Scope**

**Temperature Calibration**

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Base metal thermocouples	SOP-07	-20 °C – 150 °C	0.3 °C	Laboratory Premises
		>150 °C – 500 °C	0.8 °C	

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### Pressure Calibration

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Gas Pressure (gauge)/ Digital and analogue indicating devices	SOP/03: 2018 rev. 1 "Calibration of pressure gauges" acc. to DKD-R 6-1 (03/2014)	-0.85 bar to 0 bar	0.30 % F.S.	Laboratory Premises
		0 bar to 40 bar	0.20 % F.S.	
Liquid Pressure (gauge)/ Digital and analogue indicating devices	SOP/03: 2018 rev. 1 "Calibration of pressure gauges" acc. to DKD-R 6-1 (03/2014)	0 bar to 1200 bar	0.20 % F.S.	

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## Accreditation Scope

### Dimensional Calibration

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Issue no.: 01

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Vernier Caliper (Analog & Digital)	SOP-013 (As per BS EN ISO 13385-1: 2019 )	0 – 300 mm	0.027 mm	Laboratory Premises
		>300 mm – 600 mm	0.030 mm	
Height Gauge (Analog & Digital)	SOP-014 As per JIS B 7517:2018	0 – 300 mm	0.027 mm	Laboratory Premises
		>300 mm – 600 mm	0.030 mm	
External Micrometer (Analog & Digital)	SOP-015 As per JIS B 7502:2016	0 – 25 mm	0.002 mm	Laboratory Premises
		>25 mm – 100 mm	0.004 mm	
Micrometer Head for Calibration Tester	SOP-016 (In-house Method)	0 – 25 mm	0.0015 mm	Laboratory Premises
Dial Gauge & Digital Indicator	SOP-017 As per JIS B 7503:2017	0 – 12.7 mm	0.0026	Laboratory Premises
Lever Type Test Indicator (Analog & Digital)	SOP-018 As per JIS B 7533:2015	Up to $\pm 1$ mm	0.002 mm	Laboratory Premises

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Micro Indicator (Analog & Digital)	SOP-019 As per JIS B 7519:1994	Up to $\pm 1$ mm	0.002 mm	Laboratory Premises
Precision Linear Displacement Transducer	SOP-020 (In-house Method)	0 – 25 mm	0.0015 mm	Laboratory Premises
Feeler Gauge	SOP-021 As per JIS B 7524:2008	Up to 1 mm	0.004 mm	Laboratory Premises
LVDT	SOP-022 (In-house Method)	Up to 25 mm	0.002 mm	Laboratory Premises
Squares	SOP-023 As per JIS B 7526:1995	Up to 200 mm	0.009 mm	Laboratory Premises
Straight Edge	SOP-024 As per JIS B 7514:1977	Up to 300 mm	0.005 mm	Laboratory Premises
Metal Ruler	SOP-025 As per JIS B 7516:2005	Up to 600 mm	0.60 mm	Laboratory Premises
Coating Thickness Foils	SOP-026 (In-house Method)	Up to 1533 $\mu$ m	3.0 $\mu$ m	Laboratory Premises
Coating Thickness Gauge	SOP-027 (In-house Method)	Up to 1500 $\mu$ m	8.0 $\mu$ m	Laboratory Premises

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