



# ACCREDITATION CERTIFICATE

**LB-113-CAL**

***Dubai Accreditation Department***

***has accredited***

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

In accordance with the requirements of ISO/ IEC 17025: 2005 to undertake the tests  
in the field of:

**Calibration**

Listed in the attached Scope of Accreditation

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

***Validity of Certificate: from 18- 12- 2015 to 17- 12- 2018***

Initial Accreditation Date: 18- 12- 2012

  
\_\_\_\_\_  
Director, Dubai Accreditation Department



## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

No: 203, 2<sup>nd</sup> Floor

Zabeel Business Centre, Al Karama

Dubai- United Arab Emirates

Scope Issue No: 04

Scope Validity Period: 18-12-2015 to 17-12-2018

Accreditation Certificate No: LB-113-CAL

Issued by (Head of Section): e/c

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
DC Voltage /Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>U = measured voltage value</i>	0 mV up to 330 mV	$0.14 \times 10^{-3} U + 15 \mu V$	Laboratory
		<0.33 V up to 3.3 V	$0.10 \times 10^{-3} U + 98 \mu V$	
		<3.3 V up to 33 V	$0.10 \times 10^{-3} U + 1.0 mV$	
		<33 V up to 330 V	$0.12 \times 10^{-3} U + 9.7 mV$	
		<330 V up to 1000 V	$0.09 \times 10^{-3} U + 98 mV$	
AC Voltage/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>U = measured voltage value</i>	Frequency 45 Hz		Laboratory
		10 mV up to 33 mV	$3.8 \times 10^{-3} U + 71 \mu V$	
		<33 mV up to 330 mV	$1.7 \times 10^{-3} U + 78 \mu V$	
		<0.33 V up to 3.3 V	$1.1 \times 10^{-3} U + 0.38 \mu V$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>



## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Accreditation Certificate No: LB-113-CAL**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Issued by (Head of Section):** 

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Voltage/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>U = measured voltage value</i>	Frequency 45 Hz		Laboratory
		<3.3 V up to 33 V	$1.1 \times 10^{-3} U + 3.8 \text{ mV}$	
		<33 V up to 330 V	$1.5 \times 10^{-3} U + 50 \text{ mV}$	
		<330 V up to 1000 V	$3.8 \times 10^{-3} U + 0.24 \text{ V}$	
		Frequency 100 Hz		
		10 mV up to 33 mV	$3.9 \times 10^{-3} U + 70 \text{ }\mu\text{V}$	
		<33 mV up to 330 mV	$1.8 \times 10^{-3} U + 76 \text{ }\mu\text{V}$	
		<0.33 V up to 3.3 V	$1.2 \times 10^{-3} U + 0.33 \text{ mV}$	
		<3.3 V up to 33 V	$1.4 \times 10^{-3} U + 3.3 \text{ mV}$	
		<33 V up to 330 V	$1.7 \times 10^{-3} U + 49 \text{ mV}$	
		<330 V up to 1000 V	$1.7 \times 10^{-3} U + 0.24 \text{ V}$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>

## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

No: 203, 2<sup>nd</sup> Floor

Zabeel Business Centre, Al Karama

Dubai- United Arab Emirates

Scope Issue No: 04

Scope Validity Period: 18-12-2015 to 17-12-2018

Accreditation Certificate No: LB-113-CAL

Issued by (Head of Section): elc

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Voltage/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>U = measured voltage value</i>	Frequency 1 kHz		Laboratory
		10 mV up to 33 mV	$3.8 \times 10^{-3} U + 70 \mu V$	
		<33 mV up to 330 mV	$1.8 \times 10^{-3} U + 76 \mu V$	
		Frequency 1 kHz		
		<0.33 V up to 3.3 V	$1.2 \times 10^{-3} U + 0.33 mV$	
		<3.3 V up to 33 V	$1.4 \times 10^{-3} U + 3.3 mV$	
		<33 V up to 330 V	$1.7 \times 10^{-3} U + 49 mV$	
		<330 V up o 1000 V	$1.7 \times 10^{-3} U + 0.24 V$	
DC Current/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>I = measured current value</i>	0.0 $\mu A$ up to 330 $\mu A$	$0.19 \times 10^{-3} I + 1.2 \mu A$	Laboratory
		<0.33 mA up to 3.3 mA	$0.50 \times 10^{-3} I + 1.6 \mu A$	
		<3.3 mA up to 33 mA	$0.56 \times 10^{-3} I + 2.0 \mu A$	
		<33 mA up to 330 mA	$0.57 \times 10^{-3} I + 22 \mu A$	
		<0.33 mA up to 3 A	$1.6 \times 10^{-3} I + 0.91 mA$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>



## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Accreditation Certificate No: LB-113-CAL**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Issued by (Head of Section):**

*[Signature]*

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
DC Current/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>I = measured current value</i>	<3 A up to 20 A	$2.2 \times 10^{-3} / + 4.6 \text{ mA}$	Laboratory
		<20 A up to 100 A	$2.9 \times 10^{-3} / + 1.6 \text{ mA}$	
		<100 A up to 1000 A	$5.8 \times 10^{-3} / + 17 \text{ mA}$	
Resistance/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>R = measured resistance value</i>	0.01 $\Omega$ up to 1.0 $\Omega$	$4.8 \times 10^{-3} R + 12 \text{ m}\Omega$	Laboratory
		1.0 $\Omega$ up to 1.9 $\Omega$	$3.4 \times 10^{-3} R + 10 \text{ m}\Omega$	
		1.9 $\Omega$ up to 10.0 $\Omega$	$1.1 \times 10^{-3} R + 10 \text{ m}\Omega$	
		10.0 $\Omega$ up to 19.0 $\Omega$	$0.94 \times 10^{-3} R + 7 \text{ m}\Omega$	
		19.0 $\Omega$ up to 100.0 $\Omega$	$0.41 \times 10^{-3} R + 6.8 \text{ m}\Omega$	
		100.0 $\Omega$ up to 190.0 $\Omega$	$0.46 \times 10^{-3} R + 2.2 \text{ m}\Omega$	
		0.19 k $\Omega$ up to 1.0 k $\Omega$	0.12 R	
		1.0 k $\Omega$ up to 1.9 k $\Omega$	0.12 R	
		1.9 k $\Omega$ up to 10.0 k $\Omega$	$0.43 \times 10^{-6} R + 1.2 \Omega$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>



## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

No: 203, 2<sup>nd</sup> Floor

Zabeel Business Centre, Al Karama

Dubai- United Arab Emirates

Scope Issue No: 04

Scope Validity Period: 18-12-2015 to 17-12-2018

Accreditation Certificate No: LB-113-CAL

Issued by (Head of Section):

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Resistance/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>R = measured resistance value</i>	10.0 kΩ up to 19.0 kΩ	$1.4 \times 10^{-6} R + 1.2 \Omega$	Laboratory
		19.0 kΩ up to 100.0 kΩ	$1.0 \times 10^{-6} R + 12 \Omega$	
		100.0 kΩ up to 190 kΩ	$2.9 \times 10^{-6} R + 12 \Omega$	
		0.19 kΩ up to 1.0 MΩ	$1.1 \times 10^{-3} R + 0.12 K\Omega$	
		1.0 MΩ up to 1.9 MΩ	$0.12 \times 10^3 R$	
		1.9 MΩ up to 10.0 MΩ	$1.5 \times 10^3 R$	
		10.0 MΩ up to 19.0 MΩ	$1.5 \times 10^3 R$	
		19.0 MΩ up to 100 MΩ	$0.13 \times 10^6 R$	
		100 MΩ up to 190 MΩ	$0.15 \times 10^6 R$	
AC Current/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>I = measured current value</i>	Frequency 45 Hz		Laboratory
		30.0 μA up to 330 μA	$2.2 \times 10^{-3} I + 1.4 \mu A$	
		<0.33 mA up to 3.3 mA	$2.4 \times 10^{-3} I + 1.8 \mu A$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>





## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

No: 203, 2<sup>nd</sup> Floor

Zabeel Business Centre, Al Karama

Dubai- United Arab Emirates

Scope Issue No: 04

Scope Validity Period: 18-12-2015 to 17-12-2018

Accreditation Certificate No: LB-113-CAL

Issued by (Head of Section): e/c

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Current/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>I = measured current value</i>	Frequency 45 Hz		Laboratory
		<3.3 mA up to 33 mA	$1.2 \times 10^{-3} / + 14 \mu A$	
		<33 mA up to 330 mA	$1.2 \times 10^{-3} / + 0.14$ mA	
		<0.33 A up to 3 A	$1.1 \times 10^{-3} / + 1.8$ mA	
		<3 A up to 20 A	$1.1 \times 10^{-3} / + 2.3$ mA	
		Frequency 45 Hz		
		<20 A up to 100 A	$2.9 \times 10^{-3} / + 8.2$ mA	
		<100 A up to 1000 A	$5.8 \times 10^{-3} / + 30$ mA	
		Frequency 1 kHz		
		30.0 $\mu A$ up to 330 $\mu A$	$2.3 \times 10^{-3} / + 1.4 \mu A$	
		<0.33 mA up to 3.3 mA	$2.5 \times 10^{-3} / + 1.7 \mu A$	
		<3.3 mA up to 33 mA	$2.2 \times 10^{-3} / + 15 \mu A$	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>

## SCOPE OF ACCREDITATION

### Electrical Calibration

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Accreditation Certificate No: LB-113-CAL**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Issued by (Head of Section):** 

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Current/ Calibration of Meters	Procedure No: JCP 01 W37 Comparison Method using Multifunction Calibrator  <i>I = measured current value</i>	Frequency 1 kHz		Laboratory
		<33 mA up to 330 mA	$2.2 \times 10^{-3} / + 0.14$ mA	
		<0.33 A up to 3 A	$2.7 \times 10^{-3} / + 1.7$ mA	
		Frequency 1 Hz		
		<3 A up to 20 A	$3.2 \times 10^{-3} / + 1.9$ mA	
		<20 A up to 100 A	$4.6 \times 10^{-3} / + 7.7$ mA	
		<100 A up to 1000 A	$6.0 \times 10^{-3} / + 29$ mA	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>





## SCOPE OF ACCREDITATION

### Pressure Calibration

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Accreditation Certificate No: LB-113-CAL**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Issued by (Head of Section):** elc

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
<b>Hydraulic Pressure</b> Pressure gauge, Indicator	JCP 01 W02 based on DKD-R 6-1	10 bar up to 1400 bar	$5 \times 10^{-4} * p_e$ , but not lower than 10 mbar	Laboratory
<b>Pneumatic Pressure</b> Pressure gauge, Indicator	JCP 01 W02/1 based on DKD- R 6-1	-1 bar up to 0 bar 0 bar up to 20 bar	5 mbar 15 mbar	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>

**SCOPE OF ACCREDITATION**  
**Balance Calibration**

**Jansal Calibration Services**

No: 203, 2<sup>nd</sup> Floor

Zabeel Business Centre, Al Karama

Dubai- United Arab Emirates

Scope Issue No: 04

Scope Validity Period: 18-12-2015 to 17-12-2018

Accreditation Certificate No: LB-113-CAL

Issued by (Head of Section): cle

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Weighing Machine	Comparison Method using "F1" class weight set Euramet cg 18	up to 4 kg max load	3 x 10 <sup>-6</sup>	Customer premises

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>





## SCOPE OF ACCREDITATION

### Temperature Calibration

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Accreditation Certificate No: LB-113-CAL**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Issued by (Head of Section):** 

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Digital and Analogue Thermometer	JCP 01 W03 & W05 BS 1041-2 -2: 1989	-25 °C up to 150 °C 150 °C up to 300 °C	± 0.13 °C 0.22 °C	Laboratory
Oven /Incubator Climatic Chamber	JCP 01 W 08 DKD R5-7 (9 points)	0 °C up to 100 °C 100 °C up to 200 °C	±0.7 °C ±0.9 °C	Customer premises
Refrigerator Chiller Freezer	JCP 01 W 23 DKD R5-7 1 (9 points)	-25 °C up to 25 °C	±0.7 °C	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>

**SCOPE OF ACCREDITATION**  
**Dimensional Calibration**

**Jansal Calibration Services**

**No: 203, 2<sup>nd</sup> Floor**

**Zabeel Business Centre, Al Karama**

**Dubai- United Arab Emirates**

**Scope Issue No: 04**

**Scope Validity Period: 18-12-2015 to 17-12-2018**

**Accreditation Certificate No: LB-113-CAL**

**Issued by (Head of Section):** 

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Digital Calipers (Vernier+ Dial)	JCP 01 W04 based on ISO BS-EN-ISO 13385-1-2011	0 up to 300 mm	0.007 mm 0.015 mm	Laboratory
Dial Gauges	JCP 01 W06 based on ISO BS EN ISO 463:2006	Up to 100 mm	0.003 mm	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

P.O Box: 67, DUBAI-UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: [dacinfo@mail.dm.ae](mailto:dacinfo@mail.dm.ae) • web site: <http://www.dac.gov.ae>