הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

ISO/IEC 17025:2017

מעבדות כיול

תעודת הסמכה מס' 201

ברמד

כתובת אתר ייחוס: קיבוץ עברון, 2280800

בתוקף מיום:21.02.2024 **עד יום: 16.06.2026**

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (להלן הרשות) ונמצא ראוי להסמכה בהתאם לנספח פירוט היקף ההסמכה המצורף לתעודה זו, המהווה חלק בלתי נפרד ממנה ומספרו זהה למספר התעודה.

הסמכה מצביעה על כשירות מקצועית ותפעול מערכת ניהול איכות בעלת הכרה בינלאומית.

הארגון המוסמך על ידי הרשות, עומד בתקנים/ בדרישות המפורטים מעלה. דרישות התקנים הם לכשירות מקצועית ולמערכות ניהול, שהינן הכרחיות למתן תוצאות אמינות. הסמכה זו ניתנה בהתאם לכללי ISO/IEC 17011:2017 לפיהם פועלת הרשות ובמסגרתם מקיימת פיקוח שוטף על הארגון לצורך בחינת תפקודו המתמשך בהתאם לדרישות ההסמכה.

ההסמכה תקפה כל עוד הארגון עונה לאמות המידה שנקבעו על ידי הרשות.

הרשות חתומה על הסכם הכרה רב צדדי (MLA) מול ארגון European Accreditation Cooperation (EA).

תעודה זו אינה מהווה אישור לפי סעיף 12 לחוק התקנים.

תאריך הסמכה ראשון: 17.06.2012

אתי פלר
מנכ"ל
הרשות הלאומית להסמכת מעבדות

Date of signature 08/04/2024

הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Calibration Laboratories **ISO/IEC 17025:2017**

Accreditation Certificate No. 201

Flow Meters Calibration Laboratory – Bermad

Main site address: Kibbutz Evron, 2280800, Israel

Valid from:21.02.2024 **Until: 16.06.2026**

The organization was assessed by the Israel Laboratory Accreditation Authority (ISRAC) and found to be worthy of accreditation to the detailed schedule attached.
The schedule is an integral part of this certificate and is numbered with the above certificate number.
Accreditation demonstrates technical competence and operation of an internationally recognized quality management system.
The organization accredited by ISRAC complies with the standards/requirements mentioned above, meets the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically competent results. This accreditation is granted in accordance with the requirements of ISO/IEC 17011:2017, and entails periodic surveillance and reassessment by ISRAC to ensure that the organization continues to comply with the accreditation requirements.
The accreditation is valid provided that the organization continues to meet the criteria as laid down by ISRAC.
ISRAC is an EA-MLA (European Accreditation Cooperation Multi-Lateral Agreement) signatory.

This certificate does not constitute an approval in accordance with article 12 of the standard law.

Etty Feller
General Manager
Israel Laboratory Accreditation Authority

Date of first accreditation: 17.06.2012

***Name and Address*:**

Organisation name	**Flow Meters Calibration Laboratory - Bermad**
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Phone	+972-073-2657275
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Site: P or T or M , P-Permanent, T-Temporary, M-Mobile
A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and / or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).
Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.

Item	*Scope Type*	*Site*	*Measurand, Instrument, Gauge*		*Range [Including margins] (Does not include margins)*	*Uncertainty of Measurement*[1,2]	*Reference Document*	*Remarks*
Calibration – Large Volume Volumetric Instruments								***כיול - כיול מכשירים וולומֶטְרִיים – נפחים גדולים***
1	A	P	Volume passed, Water. Electromagnetic reference water meter DN15, DN50	נפח זרימה, מים. מד מים אב אלקטרומגנטי DN15, DN50	Volume – 200 l Flow rate – [0.5 to 4] m^3/h	0.15 %	ISO 4064 BS EN 14154 OIML R49	Throughout this document, DN is instrument nominal diameter in mm notation.
2	A	P			Volume – 1000 l Flow rate – [4 to 40] m3/h	0.15 %		Test bench 6 Gravimetric method.
3	A	P	Volume passed, Water. Electromagnetic reference water meter DN15, DN40, DN150	נפח זרימה, מים. מד מים אב אלקטרומגנטי DN15, DN40, DN150	Volume – 100 l Flow rate – [0.8 to 5] m^3/h	0.15 %		Test bench 10 Gravimetric method
4	A	P			Volume – 1000 l Flow rate – [5 to 30) m3/h	0.15 %		
5	A	P			Volume – 10000 l Flow rate – [30 to 300) m3/h	0.15 %		
6	A	P	Volume passed, Water. Electromagnetic reference water meter DN25, DN80	נפח זרימה, מים. מד מים אב אלקטרומגנטי DN25, DN80	Volume – 450 l Flow rate – [0.8 to 10] m^3/h	0.15 %		Test bench 3 Gravimetric method .
7	A	P			Volume – 2000 l Flow rate – [10 to 100] m^3/h	0.15 %		
8	A	P	Volume passed, Water. Electromagnetic reference water meter DN25, DN100, DN250	נפח זרימה, מים. מד מים אב אלקטרומגנטי DN25, DN100, DN250	Volume – 500 l Flow rate – [2 to 15] m^3/h	0.15 %		Test bench 1 Gravimetric method.
9	A	P			Volume – 10000 l Flow rate – [15 to 200] m3/h	0.15 %		
10	A	P			Volume – 10000 l Flow rate – [40 to 630] m3/h	0.15 %		
11	A	P	Volume passed, Water.	נפח זרימה, מים.	Volume –450 l Flow Rate – [2 to 30] m^3/h	0.15 %		Test bench 2 Gravimetric method

Item	*Scope Type*	*Site*	*Measurand, Instrument, Gauge*		*Range [Including margins] (Does not include margins)*	*Uncertainty of Measurement*[1,2]	*Reference Document*	*Remarks*
Calibration – Large Volume Volumetric Instruments								***כיול - כיול מכשירים וולומֶטְרִיים – נפחים גדולים***
12	A	P	Electromagnetic reference water meter DN40, DN200	מד מים אב אלקטרומגנטי DN40, DN200	Volume –10000 l Flow Rate – [30 to 450] m3/h	0.15 %		
13	A	P	Volume passed, Water. Electromagnetic reference water meter	נפח זרימה, מים. מד מים אב אלקטרומגנטי	Volume – [1 to 6000] l Flow Rate – [0.02 to 600] m3/h	0.15 %		Test bench 15 Gravimetric method
14	A	P	Volume passed, Water. Water meters with analogue display DN40– DN50	נפח זרימה, מים. מדי מים בעלי תצוגה אנלוגית DN40 – DN50	Volume – 100 l Flow Rate – [0.5 to 5) m3/h	0.3 %		Test bench 6 Volumetric method using reference EM volumetric meter and pulse counter.
15	A	P			Volume – 500 l Flow Rate – [5 to 25] m3/h	0.3 %		
16	A	P			Volume – 1000 l Flow Rate – (25 to 40]	0.3 %		
17	A	P	Volume passed, Water. Water meters with analogue display DN50– DN80	נפח זרימה, מים, מדי מים בעלי תצוגה אנלוגית .DN50 – DN80	Volume – 100 l Flow Rate – [0.5 to 5) m3/h	0.3 %		Test bench 3 Volumetric method using reference EM volumetric meter and pulse counter.
18	A	P			Volume – 500 l Flow Rate – [5 to 25] m3/h	0.3 %		
19	A	P			Volume – 1000 l Flow Rate – (25 to 50] m3/h	0.3 %		
20	A	P			Volume – 2000 l Flow Rate – (50 to 100] m3/h	0.3 %		
21	A	P	Volume passed, Water. Water meters with analogue display DN50– DN150	נפח זרימה, מים. מדי מים בעלי תצוגה אנלוגית DN50 – DN150	Volume – 100 l Flow Rate – [0.5 to 5) m3/h	0.3 %		Test bench 10. intended for 90º pattern meters. Volumetric method using reference
22	A	P			Volume – 500 l Flow Rate – [5 to 25] m3/h	0.3 %		

Item	*Scope Type*	*Site*	*Measurand, Instrument, Gauge*		*Range [Including margins] (Does not include margins)*	*Uncertainty of Measurement*[1,2]	*Reference Document*	*Remarks*
Calibration – Large Volume Volumetric Instruments								***כיול - כיול מכשירים וולומֶטְרִיים – נפחים גדולים***
23	A	P			Volume – 1000 l Flow Rate – (25 to 50] m3/h	0.3 %		EM volumetric meter and pulse counter.
24	A	P			Volume – 2000 l Flow Rate – (50 to 105] m3/h	0.3 %		
25	A	P			Volume – 3000 l Flow Rate – (105 to 160] m3/h	0.3 %		
26	A	P			Volume – 5000 l Flow Rate – (160 to 250] m3/h	0.3 %		
27	A	P			Volume – 10000 l Flow Rate – (250 to 300] m3/h	0.3 %		
28	A	P	Volume passed, Water. Water meters with analogue display DN100 – DN250	נפח זרימה, מים. מדי מים בעלי תצוגה אנלוגית DN100 – DN250	Volume – 100 l Flow Rate – [2 to 5) m3/h	0.3 %		Test bench 1 Volumetric method using reference EM volumetric meter and pulse counter.
29	A	P			Volume – 500 l Flow Rate – [5 to 25] m3/h	0.3 %		
30	A	P			Volume – 1000 l Flow Rate – (25 to 50] m3/h	0.3 %		
31	A	P			Volume – 2000 l Flow Rate – (50 to 105] m3/h	0.3 %		
32	A	P			Volume – 3000 l Flow Rate – (105 to 160] m3/h	0.3 %		
33	A	P			Volume – 5000 l Flow Rate – (160 to 250] m3/h	0.3 %		
34	A	P			Volume – 10000 l Flow Rate – (250 to 630] m3/h	0.3 %		

Item	*Scope Type*	*Site*	*Measurand, Instrument, Gauge*		*Range [Including margins] (Does not include margins)*	*Uncertainty of Measurement*[1,2]	*Reference Document*	*Remarks*
Calibration – Large Volume Volumetric Instruments						***כיול - כיול מכשירים וולומֶטְרִיים – נפחים גדולים***		
35	A	P	Volume passed, Water. Water meters with analogue display DN100 – DN250	נפח זרימה, מים. מדי מים בעלי תצוגה אנלוגית .DN100 – DN250	Volume – 100 l Flow Rate – [2 to 5) m3/h	0.3 %		Test bench 2 Volumetric method using reference EM volumetric meter and pulse counter.
36	A	P			Volume – 500 l Flow Rate – [5 to 25] m3/h	0.3 %		
37	A	P			Volume – 1000 l Flow Rate – (25 to 50] m3/h	0.3 %		
38	A	P			Volume – 2000 l Flow Rate – (50 to 105] m3/h	0.3 %		
39	A	P			Volume – 3000 l Flow Rate – (105 to 160] m3/h	0.3 %		
40	A	P			Volume – 5000 l Flow Rate – (160 to 250] m3/h	0.3 %		
41	A	P			Volume – 10000 l Flow Rate – (250 to 450] m3/h	0.3 %		
42	A	P	Volume passed, Water. Water meters with analogue or digital display DN40 - DN200	נפח זרימה, מים. מדי מים בעלי תצוגה אנלוגית או דיגיטאלית .DN40 - DN200	Volume – [0.032 to 6] m^3 Flow Rate – [0.02 to 600] m^3/h	0.22 %	ISO 4064 OIML R49	Test Bench 15 Volumetric method using reference EM volumetric meter and pulse counter.

[1)] The uncertainty covered by the CMC expressed as the standard measurement uncertainty multiplied by the coverage factor *k* such that the coverage probability corresponds to approximately 95 %.

[2)] According to Regulator requirements based on reference document ISO 4064 / IS 4064, the uncertainty of the measured actual volume does not include a contribution from the tested water meter.