

شهادة اعتماد

رقم TL 154



يقر نظام الاعتماد العراقي بأن:
مختبر بابل الانشائي/ المركز الوطني للمختبرات الانشائية
العراق - بابل - الحلة - المعيرة

تم اعتماده وفقا لمتطلبات المواصفة ISO/ IEC 17025:2017
(المتطلبات العامة لاهلية مختبرات الفحص والمعايرة)

في مجال:
- اختبارات المواد الانشائية
- اختبارات المواد المعدنية

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد
مجال الاعتماد المرفق بالشهادة يعتبر جزءا لا يتجزء منها

يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني
<https://iqas.mop.gov.iq>

يكون الاعتماد نافذا من ٢٠٢٤/٤/١٥ الى ٢٠٢٦/٤/١٤
تاريخ منح الاعتماد لاول مرة
٢٠٢٤/٤/١٥

أ.د. محمد علي تميم
نائب رئيس مجلس الوزراء
وزير التخطيط

د. محمد لطيف أحمد
مدير عام الهيئة العراقية للاعتماد

ACCREDITATION CERTIFICATE

No. TL 154



Iraqi Accreditation System Certify that:
**Babylon Construction Laboratory/ National Center for
Construction Laboratories**

Iraq – Babylon –Hilla – Al-Maami

Is accredited according to the requirements of the standard ISO/IEC 17025:2017
(General Requirements for the Competence of Testing and Calibration Laboratories)

In the field of:

- Construction Materials Testing
- Metallurgical Materials Testing

This accreditation is subject to with the above standard & IQAS requirements
The scope of accreditation is attached to the certificate & considered as part of it

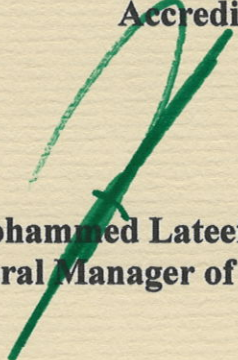
The most recent issue of the accreditation scope is available on IQAS website

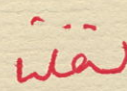
<https://iqas.mop.gov.iq>

Accreditation is valid From 15/4/2024 To 14/4/2026

Initial accreditation date

15/4/2024


Dr. Mohammed Lateef Ahmed
General Manager of IQAS


Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq – Babylon –Hilla – Al- Maami	Organization name : Babylon Construction Laboratory/ National Center for Construction Laboratories	Accreditation no.: TL 154
Signature: Abdul Wahid Mohammed Ibrahim Deputy General Manager	Accreditation is valid: From 14/7/2024 To 14/4/2026	Issue no. : 002

Testing field	Type of test	Test object or product	Reference to standardized method
Mechanical	Determination of compressive strength	Concrete cube	Iraqi guide no. 348:2017
Physical	Determination of density	Concrete cube	Iraqi guide no. 274:1992
Physical	Determination of dimensions	Clay bricks	IQS: 24:1988 IQS: 25:1988
Physical	Determination of compression	Clay bricks	IQS: 24:1988 IQS: 25:1988
Physical	Determination of water absorption	Clay bricks	IQS: 24:1988 IQS: 25:1988
Mechanical	Determination of ultimate tensile strength	Steel reinforcing bars	ASTM A370 ASTM A615
Mechanical	Determination of yield strength	Steel reinforcing bars	ASTM A370 ASTM A615
Mechanical	Unconfined Compression Test	Soil	ASTM- D2166/D2166-2016
	Direct Shear Test		ASTM D3080M/D3080-11
Physical	Liquid Limit & Plastic Limit		ASTM D4318-17
	Plasticity Index		
	One- Dimension Consolidation Properties		ASTM D2435-034
	Particle –Size Analysis Of Soils		ASTM – D422
	Linear shrinkage		BS1377-2:1990
Chemical	Total Salts of Soil		Earth Manual Designation E8 SQRB
	Organic Matter Content		B.S.1377/1990(test 3)
Physical	Liquid Limit , Plastic Limit , Plasticity Index		SCRB – R6 AASHTO T89 AASHTO T90
Mechanical	Moisture – Density Relations		SCRB – R6 AASHTO T180
	Density of Soil in place by the Drive-cylinder		SCRB –R6 ASTM D2397

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	Density of Soil in place by the Sand-cone method and correction for oversized Particles		SCRB – R6 AASHTOT191
	California Bearing Ratio of Laboratory		SCRB – R6 AASHTO T193
Chemical	Total Sulphate Contene	Aggregate	GID-NO-500/3/2018
Physical	%Passing		IQS NO : 30/1984
	Fine Content		IQS NO:45/1984
	Soundness		Iraqi guide /500 ASTM C88/2013
Chemical	Total Sulphate Content	Concrete products	GID -448 /1994
	Organic impurities	fine aggregate	ASTM C40-2011
	Total Sulphate Content	Subbase	B.S.1377.2018.S.7
	Determining Water Soluble		Earth Manual
	Organic matter content		B.S 1377/1990(TEST3)
	Chemical Analysis Of Cement X-RAY	Cement	B.SEN 196-2-2013
Mechanical	Compressive strength (2days – 28 days)		198 Iraqi guide 1990 B.S/196 :2016
Physical	Fineness		
Chemical	Insoluble Residue		B.SEN 196-2-2013
	Loss Ignition		B.SEN 196-2-2013
	Water - chloride ion		GID 671/1995
	Water -sulfate ion		
Physical	Rebound Number of Hardened	Concrete	ASTM C805-13a
	Pulse velocity through Concrete		ASTM C597-09
	Loading test		ACI318-19 Chapter 27
Chemical	Water -ph value	Water Concrete	IQS 1703/2018

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Physical	Penetration	Asphaltic Cement	SCRB – R9 ASTM D5
	Flash point		SCRB – R9 ASTM D92
	Ductility		SCRB – R9 ASTM D113
	Solubility in Trichloroethylene		SCRB – R9 ASTM D2042
	Resis due from Thin-Film Oven		SCRB – R9 ASTM D1754
	Kinematic Viscosity		SCRB – R9 ASTM D2170
	Penetration for Joint and Crack Sealants Hot Applied	Concrete and Asphalt Pavement	IQS NO:(1110) ASTM D5329
	Flow for Joint and Crack Sealants Hot Applied for Concrete	Asphalt Pavement	IQS NO:(1110)
	Penetration for Asphalt Used		IQS NO:(1196) IQS NO: (9)
	Softening Point for Asphalt Used		IQS NO: (1196) ASTM D36
	Flash Point for Asphalt		IQS NO: (1196) IQS NO:(134)
	Ductility		ASTM D113
	Sieve Analysis	Granular Materials	SCRB – R6 AASHTO T27 AASHTO T11
Mechanical	Resistance to Degradation of Aggregate		(SCRB R6) ASTM C131 ASTM C535

Mechanical	Penetration for Asphalt	Damp proofing and Waterproofing	IQS NO:(2269) ASTM D5
Physical	Softening Point for Asphalt		IQS NO:(2269) ASTM D36

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	Ductility for Asphalt		IQS NO:(2269) ASTM D113
	Solubility for Asphalt		IQS NO:(2269) ASTM D2042
	Index of Elongation of Flakiness of Aggregate	Damp proofing and Waterproofing	SCRB (R9) ASTM D4791
	Sieve Analysis of fine Aggregate for Bituminous Paving Mixture		SCRB – R9 ASTM D1073
	Sieve Analysis of mineral filler		SCRB –R9 AASHTO T37
	Specific Gravity of mineral filler		SCRB –R9 AASHTO T153
	Sieve analysis of coarse aggregate for road & bridge construction		SCRB –R9 ASTM D448
	Specific gravity of coarse aggregate	Asphalt Mixture	SCRB (R9) ASTM C127
	Asphalt content of mixture by Ignition Method		SCRB – R9 ASTM D6307
	Grading		SCRB – R9 ASTM D5444
	Stability & Flow		SCRB – R9 ASTM D6927 و ASTM D6926
	Air Voids		SCRB – R9 ASTM D 2041
	Bulk Density		SCRB – R9 ASTM D2726
	Specific Gravity of Fine Aggregate		SCRB (R9) ASTM C128
	Sand Equivalent Value of Soil and fine Aggregate		SCRB (R9) AASHTO T176
	Coating and stripoping of Bitumen Aggregate Mixture		SCRB (R9) AASHTO T182

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Mechanical	Flexural Strength	Terrazzo Tiles	IQS /1042:1984 Iraqi Guide : 31 :1989
Physical	Total Absorption		
	Face Absorption		
	Dimensions		
Mechanical	Flexural Strength	Ceramic Tiles	ISO: 10545-2/1995 ISO :10545-4/2014 ISO :1054-3/1995
Physical	Absorption		
	Dimensions		
Mechanical	Breaking Load	Precast Concrete Fages	IQS: 1107 /1988
Physical	Absorption		
	Dimension		
Mechanical	Compressive strength	Stone + Carved stone	Iraqi Guide : 65 /2-1-3
Physical	Flexural Strength		
	Absorption		
	Specific Gravity		
Mechanical	Compressive strength	Concrete Masonry Units	IQS :1606 /2017
Physical	Density		
	Dimensions		
	Absorption		
Mechanical	First Crack strength	Concrete Pipes	IQS :1933/ 1989 AASHTO T240-2014 Roads and bridges
Physical	Ultimate strength		
	Absorption		
	Dimensions		
Mechanical	Compressive strength	Gypsum	Iraqi Guide: 1042/2011 IQS NO :28/20210 First update First amendment 2015
Physical	Flexural Strength		
	Fineness		
	Setting Time		
Mechanical	Hardness	Natural marble	ASTM C-97/C97-2009 ASTM C-170-99 ASTM C-880-2006 ASTM C99-2006
Physical	Compressive strength		
	Flexural Strength		
	Absorption		
	Specific Gravity		

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Physical	Dimensions	Pre-Cast Concrete Kerbs & Channels	IQS 1106/1987
Mechanical	Modulus of rupture		
Physical	Absorption		
Mechanical	Dimensions	Reinforced Concrete Fence Poste	IQS 1687/1992
	Colume Loading		
	Longitudinal Reinforcement		
	Stirrup Reinforcement		
Physical	Dimensions	Test Concrete Drilled Cores	ASTM C42/C42M-16 ASTM C496-11 ASTM C78-16
Mechanical	Compressive Strength		
	Splitting Tensile Strength		
Physical	Thickness	Thickness & Bulk Density of Compacted Bituminous Paving	ASTM D3549/2000 &SCRB-R9/2003
	Bulk Density of Core Pavement Specimens		