

شهادة اعتماد

رقم TL 154



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

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 يتجزأ منها

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

يكون الاعتماد نافذا من ٢٠٢٦/٥/٣١ الى ٢٠٢٨/٥/٣٠
تاريخ منح الاعتماد لأول مرة
٢٠٢٤/٤/١٥

فالح ساري
وزير المالية
وزير التخطيط/ وكالة

محمد آيدن عمر
مدير عام الهيئة/ وكالة

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)

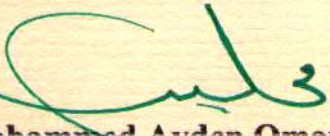
- In the field of:
- Construction Materials Testing
 - Metallurgical Materials Testing

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

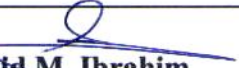
The most recent issue of the accreditation scope is available on IQAS website
<https://iqas.mop.gov.iq>

Accreditation is valid From 31/5/2026 To 30/5/2028

Initial accreditation date
15/4/2024


Mohammed Ayden Omar
Director General of IQAS

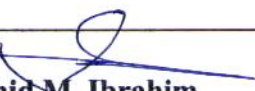

Falih Sari
Minister of Finance
Minister of Planning

	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 M. Ibrahim Deputy General Manager	Accreditation is valid: From 31/5/2026 To 30/5/2028	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
	Determination of density		Iraqi guide no.274:1992
Physical	Compressive strength		BS. EN. 12390-1,3,7 Road and Bridge B8
	Determination Density		
	Dimensions and shape		
Mechanical	Compressive strength	Cylindrical Concrete	ASTM C39/C39 M
Physical	Density	Clay bricks	IQS:24:1988 IQS:25:1988
	Determination of dimensions		
	Determination of Compression		
	Determination of water absorption		
	Efflorescence		
	Dimensions	Facing brick + Facing brick solid Mosonary units made from clay or shale	ASTM C 67
	Saturation		
Mechanical	Efflorescence		
	Freezing & thawing		
	Compressive strength	Hollow Brick	ASTM C652
Physical	IRA		
	Compressive strength		
	Dimensions		
	Saturation		
Mechanical	Efflorescence	Steel reinforcing bars	ASTM A370 ASTMA615 ASTM E290 B.S. EN. 4449+A2
	Determination of ultimate tensile strength		
	Determination of yield strength		
Mechanical	Bend		
	Elongations		
	Diameter , Dimensions		

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	&Mass Test		
	Deformation Test		
Mechanical	Tensile	Carbone Steel Welded Wire Reinforcement Plain and deformed	ASTM A370
	Yield Strength		B.S. EN. 4483
	Bend		B.S. EN. 4449+A2
	Elongations		ASTM A1064/A1064M
	Type and dimensions		
Physical	Liquid Limit &Plastic Limit Plasticity Index	Soil	ASTM-D4318-17
	One-Dimension Consolidation Properties		ASTM-D2435-034
	Particle-Size Analysis Of Soils		ASTM-D422
	Linear shrinkage		BS1377-:2/ 1990
	Plate loading test		BS1377-:9 / Clause 4.1
	Swell		ASTM D1883 , AASHTO T193
	Liquid Limit &Plastic Limit Plasticity Index		SCR-B-R6AATHTO T89,AASHTO T90
Chemical	Total Salts of Soil		Earth Manual Designation E8 SQRB
	Organic Matter Content		B.S.1377/1990(test 3)
Mechanical	Unconfined Compression Test		ASTM-D2166/D2166-2016
	Direct Shear Test		ASTM-D3080M/D3080-11
	Moisture-Density Relations		SCR-B-R6,AASHTO T180
	Density of Soil in place by the Drive-cylinder		SCR-B-R5,ASTM-D2397
	Density of Soil in place by the Sand-cone method and correction for oversized Particles		SCR-B-R6,AASHTO T191
	California Bearing Ratio of Laboratory		SCR-B-R6,AASHTO T193
Chemical	Gypsum%		B.S. 1377 (test 5)

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Physical	Clay Lumps and Firable particle	Subbase + Aggregate	AASHTO T112 + ASTM C142 + IQG 500/2
Chemical	Total Sulphate Contene	Aggregate	GID-NO-500/3
	Soundness for Gravel Stone		ASTM C88
	Total Sulphate Contene		GID.No.500/3 Pavement
Physical	%Passing		IQS NO:30
	Fine Content		IQS NO:45
			Iraqi guide/500
	Soundness		ASTM C88
	Light weight Particles		IPG NO.500/1 , ASTM C 123/C123M
	Flakiness Index		BS 812-105-1
	Elongations Index		BS 812-105-2
	Finess modulus of sand		ASTM C136
	Fine content		ASTM C 117 , C 136-136 Road and Bridge B8
	%Passing		Road and Bridge B8 AASHTO T 27
	Index of Coarse Aggregate Angularity		ASTM D 5821
	Bulk Density (Unit Weight) and voids		ASTM C29/C29M
	Sieve Analysis & Finer than no.200	fine &coarse aggregate	SCRB B8
	Sieve Analysis & fine &coarse	Water filters	IQS 1555
Chemical	Total Sulphate Content	Concrete products	GID-448
	Chloride content		
	Organic impurities	fine aggregate	ASTM C40 , IQS 2321
	Total Sulphate Content	subbase	B.S.1377.2018.S.7
	Determining Water Soluble		Earth Manual
	Organic matter content		B.S 1377/1990(TEST3)
	Gypsum%		B.S. 1377 (test 3)

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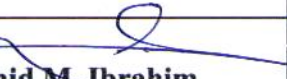
	Chemical Analysis Of Cement X-RAY	Cement	B.SEN 196-2
Mechanical	Compressive strength(2days-28days)		198 Iraqi guide B.SEN/196-6
Physical	Fineness		B.S.EN. 196-3
	Setting Time		GID 198-2
	Soundness		ASTM C 188 Reapproved 2023
	Density		
Chemical	Insoluble Residue		B.SEN 196-2-
	Loss Ignition		B.SEN 196-2
	Water-chloride ion		GID 671
	Water-sulfate ion		
Physical	Time Of Setting	Portland Cement	ASTM C109/ C109M , C204,191
	Soundness		
	Fineness		
Mechanical	Compressive strength	Concrete	
Physical	Rebound Number of Hardened		ASTM C805-13a
	Pulse velocity through Concrete		ASTM C597-09
	Loading test		ACI318, Chapter 27
Chemical	Water-ph value	Water Concrete	IQS 1703
Physical & mechanical	Penetration	Asphaltic Cement	SCR-B-R9,ASTM D5
	Flash point		SCR-B-R9,ASTM D92
	Ductility		SCR-B-R9,ASTM D113
	Solubility in Trichloroethylene		SCR-B-R9,ASTM D2042
	Resis due from Thin-Film Oven		SCR-B-R9,ASTM D1754
	Kinematic Viscosity		SCR-B-R9,ASTM D2170
	Penetration for Joint and Crack Sealant Hot Applied	Concrete and Asphalt Pavement	IQS NO:(1110) ASTM D5329
	Flow for Joint and Crack Sealant Hot	Asphalt Pavement	IQS NO:(1110)

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	Hot Applied for Concrete		
	Penetration for Asphalt Used	Roofing	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	Cranular Materials	SCRB-R6, AASHTO T27, AASHTO T11
Mechanical	Resistance to Degradation of Aggregate		(SCRB R6), ASTM C131, ASTM C535
	Penetration for Asphalt	Damp proofing and Waterproofing	IQS NO: (2269), ASTM D5
Physical & Mechanical	Softening Point for Asphalt		IQS NO: (2269), ASTM D36
	Ductility for Asphalt		IQS NO: (2269), ASTM D113
	Solubility for Asphalt		IQS NO: (2269), ASTM D2042
	Flash Point		ASTM D 92
	Index of Elongation of Flakiness of Aggregate	Asphalt Mixture	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 T133
	Sieve analysis of coarse aggregate for road & bridge construction		SCRB-R9, ASTM D448
	Specific gravity of coarse aggregate		SCRB-R9, ASTM C127
	Asphalt content of mixture by Ignition Method		SCRB-R9, ASTM D6307
	Grading		SCRB-R9, ASTM D5444

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	Stability & Flow		SCRB-R9 , ASTM D6927,ASTM D6926
	Air Voids		SCRB-R9,ASTM D2041
	Bulk Density		SCRB-R9, ASTM D2726
	Specific Gravity Value of Solid and fine Aggregate		SCRB-R9,ASTM C128
	Sand Equivalent Value of Soil and fine Aggregate		SCRB-R9,AASHTO T176
	Coating and stripping of Bitumen Aggregate Mixture		SCRB-R9, AASHTO T182
	Asphalt content of mixture by Extraction Method		AASHTO T164 ,ASTM D 2172
	Grading		AASHTO T30
Mechanical	Flexural Strength	Terrazzo Tiles	IQS/1042:1984,Iraqi Guide:31
Physical	Total Absorption		
	Face Absorption		
	Dimensions		
Mechanical	Flexural Strength	Ceramic Tiles	ISO:10545-2,3,4,5,6,7,8,9,10,11,12
Physical	Absorption		
	Dimensions		
Mechanical	Breaking Load	Precast Concrete Fages	IQS:1107
Physical	Absorption		
	Dimensions		
Mechanical	Flexural Strength	Stone + Carved stone	ASTM C 880 / C 880M Iraqi Guide:65/2-1-3
	Compressive strength		
	Flexural Strength		
Physical	Absorption		ASTM C 88
	Specific Gravity		
Chemical	Soundness	Riprap stone pitching for road & Bridges	B19 & its amendment 1999
Physical	Appearance		
	Hand placed Riprap		
	Specific Gravity		

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	Trueness	Rigid block & board thermal insulation	ASTM C 550
	Squrness		
	Face Trueness		
Mechanical	Compressive strength	Concrete Masonry Units	IQS:1606 ,IQS 32 ASTM C 140
Physical	Density		
	Dimensions		
	Absorption		
	Abrasion Resistance	Concrete interlocking paving units	ASTM C 418 , C 1645
	Absorption	Solid Concrete interlocking paving units	ASTM C 936
	Dimensions		
Mechanical	Compressive strength	Concrete Pipe + Concrete Pipe Non reinforced	IQS:1433 AAASHTO T280 Roads and bridges
Physical	First Crack strength		
	Ultimate strength		
	Absorption	Gypsum	Iraqi Guide:1042 IQS NO:28 First update First amendment 2015 IOG No. 273 BS EN 13279-2:2014
	Dimensions		
Mechanical	Compressive strength		
	Flexural Strength		
	Hardness		
	Fineness		
Physical	Setting Time		
Chemical	Percentage of So3		
	Percentage of Cao		
	Total Soluble Salts and Magnesium Salts Calculated as Percentage		
	Percentage Combined Water		
	Percentage Loss on ignition		
	Impurities Content (Insoluble Silica and Clay Content)		
Physical	Fineness	Gypsum plasters	EN 13279-2

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Mechanical	Setting Time	Natural marble	ASTM C-97/C97-2009 ASTM C-170-99 ASTM C-880-2006 ASTM C99-2006
	Surface Hardness		
	Adhesive strength		
	Compressive strength		
	Flexural Strength		
Physical	Compressive strength	Pre-Cast Concrete Kerbs&Channels	IQS 1106/1987
	Flexural Strength		
	Absorption		
Mechanical	Specific Gravity	Reinforced Concrete Poste	IQS 1687/1992
	Dimensions		
Physical	Modulus of rupture	Test Concrete Drilled Cores	ASTM C42/C42-16 ASTM C496-11 ASTM C78-16
Physical	Absorption		
Mechanical	Dimensions	Thickness & Bulk Density of Compacted Bituminous Paving	ASTM D3549/2000 & SCRB-R9/2003
	Colum Loading		
	Longitudinal Reinforcement		
physical	Stirrup Reinforcement	Joint and Crack Sealants Hot Applied Concrete and Asphalt Pavement	ASTM D5329 IQS 1110
	Dimension		
	Compressive Strength		
	Splitting Tensile Strength		
Physical	Thickness	Concrete Joint Sealer cold Application	IQS 1117 , 1288
	Bulk Density of Core Pavement Specimens		
	Bond		
	Bond		
	Flow		
Mechanical	Penetration	Concrete cylinder	B.S EN. 12390-8 ASTM C39
	Permeability		
	Compressive Strength		
	Tensile	Steel plate	ASTM A370
	Yield Strength		

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Physical	Elongations		
	Dimensions		
	Non repetitive static plate load	Soil and Flexible pavement components	ASTM D1196 /D1196M
	Dimensions	Cellular Concrete Blocks	IQS 809,810
	Dry density		
	Shrinkage		
	Dimensions after drying		
	Dimensions Shrinkage		
	Density	Hardened Concrete	ASTM C 642
	Absorption		
	Voids		
	Depth of Penetration of water under pressure		BS. EN. 12390-8
	Absorption	Concrete Building Bricks	ASTM C426 + IQS 32
	Dimensions		
	Density		
	Linear drying shrinkage		
Mechanical	Compressive Strength		
	Compressive Strength	Mortar Gypsum for building	IG 1042
Physical	Standard consistency		
	Setting time		
	Fineness		
	Hardness		
	Concrete mix design	Concrete mix design concrete mix	BRE London 1997