

شهادة اعتماد

رقم 129 TL



يقر نظام الاعتماد العراقي بأن:
المختبر الهندسي الانشائي
العراق - ميسان - العمارة - عواشة

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

في مجال:

- اختبارات المواد الانشائية - اختبارات المواد المعدنية
- اختبارات المواد الكيميائية - اختبارات المواد البلاستيكية
- اختبارات الاجهزة والمعدات الكهربائية والالكترونية
- اختبارات الحريق

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد
مجال الاعتماد المرفق بالشهادة يعتبر جزءاً لا يتجزأ منها
يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني

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

يكون الاعتماد نافذاً من ٢٠٢٦/٥/١٩ الى ٢٠٢٧/٤/٢٣
تاريخ منح الاعتماد لأول مرة
٢٠٢٣/٥/٢

فالح ساري
وزير المالية
وزير التخطيط/ وكالة

محمد أيمن عمر
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 129



Iraqi Accreditation System Certify that:
Engineering Constructional Lab
Iraq- Missan – Amarah - Awasha

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:

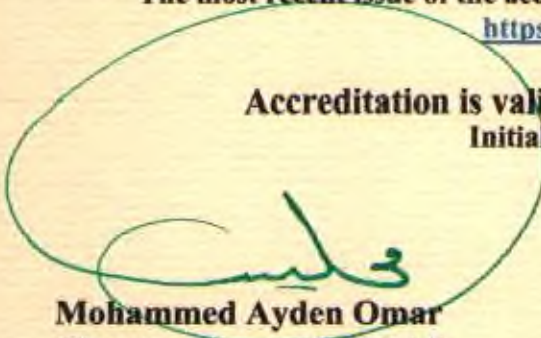
- Construction Materials Testing - Metallurgical Materials Testing
- Chemical Materials Testing - Polymers Materials Testing
- Electrical & Electronic Devices Testing - Fire Testing

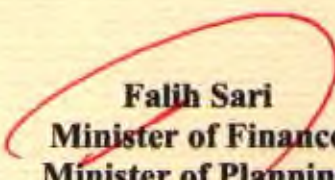
This accreditation is subject to with the above standard & IQAS requirements
The scope of accreditation is attached to the certificate & considered as part of it

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

Accreditation is valid From 19/5/2026 To 23/4/2027

Initial accreditation date
2/5/2023


Mohammed Ayden Omar
Director General of IQAS

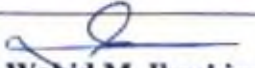

Falih Sari
Minister of Finance
Minister of Planning

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

Testing field	Type of test	Test object or product	Reference to standardized method
Mechanical	Determination of Compressive strength	Clay building bricks	IQS: 24 IQS: 25
Physical	Determination of appearance		
Physical	Determination of dimensions		
Physical	Determination of absorption		
Physical	Determination of efflorescence		
Physical	Dimensions and general appearance	Tiles	Iraqi standard specifications 1042-1984 and amendments 1988
Physical	Absorption		
Mechanical	Modulus of Rupture		
Physical	Dimensions	Concrete paving bricks	Iraqi standard specifications 1606-2006
Mechanical	Compressive strength		
Physical	Absorption		
Mechanical	Corrosion		
Chemical	Salts (SO ₃)	Gravel	Iraqi standard specifications 45
Physical	Dimensions and surface quality	Ceramic	Iraqi standard specifications 1704-1997
	Absorption		
	Thermal expansion		
	Thermal shock resistance		
	Resistant to cracking		
	Stain resistance		
Mechanical	Fracture criteria	Granite	Iraqi standard specifications 1387-1989
Physical	Dimensions		
	Density		
	Absorption		
Mechanical	Fracture criteria		
	Compressive strength		

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

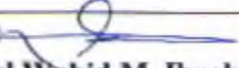
Physical	Dimensions	Precast concrete flags	Iraqi standard specifications 1107- 2002 Iraqi standard specifications 1106-1987 Iraqi standard specifications 1627-1991
	Absorption		
Mechanical	Break resistance	Curbstone Porcelain	
Physical	Density	Stone	Iraqi standard specifications 1387- 1989 and amendments 2012
	Absorption		
Mechanical	Mechanical wear		
Chemical	Chemical corrosion		
Mechanical	Compressive strength		
Physical	Dimensions	Concrete waterwheel Concrete arches	Iraqi standard specifications 1106- 1988 Iraqi standard specifications 1432- 1989 and amendments 1/2013
	Absorption		
	Break resistance		
Physical	Heat of homogeneous mixture	Tar paste	Iraqi standard specifications 1110- 1988
	Duration of spill		
	Penetration		
	Liquidity		
	Link		
Physical	Flash point	Bitumen	SORB/R9-1999 and amendments 2003
	Penetration		
	Crawl		
Physical	Density	(Flan coat) Emulsified Asphalt used as a protective coating	Iraqi standard specifications 1173 – and amendments 2012
	Water ratio		
	Physical specifications		
Chemical	Chemical specifications		
Physical	Dimensions	Bitumen felt for water proofing and damp proofing	Iraqi standard specifications 4 - 1988
	Cutting force		
	Flexibility		
	Heat resistance		
	Heating loss		
	Cracking		

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

Mechanical	Dimensions the weight Break resistance	Manhole	BS. EN 124
Mechanical	Dimensions the weight Break resistance	Rain water clip	BS. EN 125
Physical	the color	Epoxy	ASTM C881/C881M-2002
	Density		
	Thickness		
	Dry time		
	Percentage of solids		
	Absorption		
Electrical	Connectors	Cables	IEC 60502-2
	Insulators		
	Armament		
Electrical	Current	Circuit breaker	IEC 60947-2
	Resistance		
	Insulation		
	Cutting time		
	Mechanical inspection		
Physical	Dimensions	PVC pipes	DIN 8061, DIN 8062, ASTM D 1603
	Density		
	Hardness		
	The pressure		
Mechanical	Dimensions	I-beam iron	ASTM A370-17, ASTM A36
	Submission stress		
	Maximum stress		
	Elongation		
Non-destructive testing	Visual Inspection (VT)	Welding	ASME V-ART 9-2021
	Magnetic Particle test (MPT)		ASME V-ART 7-2021
	Liquid Penetrate test (LPT)		ASME V-ART 6-2021
Physical	Physical properties	Concrete admixtures	Iraqi standard specifications 1431 - 1989
Chemical	Chemical properties		

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signatures:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

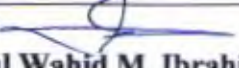
Physical	Physical properties	Water used in making concrete	Iraqi standard specifications 1703 - 1992
Chemical	Chemical properties		
Physical	Installation	White and yellow road marking paint	Iraqi standard specifications 1101 - 1986
	Gradient		
	Softening point		
	Illumination		
	Thermal stability		
	Precipitation resistance		
	Slip resistance		
Physical	Dimensions	Rigid Cellular Plastics	ASTM D1622, D2842
	Density		
	Absorption		
Physical	Dimensions	Packing stone	ASTM C503-50
	Density		
	Absorption		
	Fracture standards		
Mechanical	Compressive strength		
Electrical	Determination of diameter of one wire	Wire	IEC 60228:2004 MOE(D47:17)
	Determination of cross-sectional area		
	Determination of stranding		
	Determination of electrical resistance		
Physical	Standard test method for effect of heat and air on moving film of asphalt binder (rolling thin-film oven test)	Polymer Bituminous	AASHTO TP5 AASHTO T240 ASTM D2872
Physical	Elastic recovery of polymers bituminous	Polymer Bituminous	ASTM D 6084:2013 AASHTO T301

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

Mechanical	Determination of compressive strength	Concrete cube	Iraqi guide: 348:2017
physical	Determination of density	Concrete cube	Iraqi guide: 274:2017
physical	Sieve analysis	Sub base	ASTM D1246 ASTM C33 ASTM C136 General specification for roads and bridges SORB/B6
Physical	Density and unit weight of soil in place by sand -cone method	Soil Sub base	ASTM D1556-15e1 Geneal specifications for roads and bridges SORB/R5. R6
Physical	Determination of laboratory compaction characteristics using modified effort (2.700 KN-m/m ³)	Soil Sub base	ASTM D1556-12e1 Geneal specifications for roads and bridges SORB/R5. R6
Physical	Standards test method for density of soil in place by the Drive-Cylinder method	Soil	ASTM D2937 Geneal specifications for roads and bridges SORB/R5
Examination of non-destructive test	Standards test method for ultrasonic pulse velocity through concrete	Concrete	ASTM C579 D2845 BS 1881:PART203
Examination of non-destructive test	Standards test method for Rebound Number of hardened concretes	Concrete	ASTM C805 BS 1881 part 202
Chemical	Determination of chemical admixture for concrete	Concrete	ASTM C494:2017
Mechanical	Determination of compressive strength	Cement	Iraqi specification No.5 Iraqi Guide no. 198-1

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature: Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

Physical	Determination of initial and final setting time	Cement	Iraqi specification No.5 Iraqi Guide no. 198-2
Chemical	Determination of SiO ₂ contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of CaO contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of MgO contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of Fe ₂ O ₃ contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of Al ₂ O ₃ contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of SO ₃ contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Chemical	Determination of C ₃ A contents	Cement	Iraqi specification No.5 Iraqi Guide no. 472
Physical	Bulk specific gravity and density of non-absorptive compacted asphalt mixture	asphalt mixture	ASTM D 2726:2004
Mechanical	Standard practice for preparation of asphalt mixture specimens using Marshall apparatus	asphalt mixture	ASTM D 6926:2020 Geneal specifications for roads and bridges SORB/R9
Mechanical	Standard test method for Marshall stability and flow of asphalt mixture	asphalt mixture	ASTM D 6927:2015 Geneal specifications for roads and bridges SORB/R9
Physical	Sieve analysis for hot mix asphalt	Bituminous	ASTM D 5444:2015
Physical	Standard test method for	Bituminous	ASTM D 5:2006 Geneal specifications for roads and

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

	penetration of bituminous materials		bridges SORB/R9
Physical	Standard test method for laboratory determination of pulse velocities and ultrasonic elastic constants of rock	Rock	ASTM D 2845:2000
Mechanical	Determination of ultimate tensile strength	Steel reinforcing bars	ASTM A 370 ASTM A615
Mechanical	Determination of yield strength	Steel reinforcing bars	ASTM A 370 ASTM A615
Mechanical	Determination of elongation	Steel reinforcing bars	ASTM A 370 ASTM A615
Mechanical	Determination of dimensions	Steel reinforcing bars	ASTM A615
Mechanical	Determination of weight	Steel reinforcing bars	ASTM A615
Mechanical	Deformation	Steel reinforcing bars	ASTM A615
Mechanical	Welded Joints	RT: Radiographic test	-ISO 17636 -ASME Boiler & Pressure Vessel Code Section V, Non-destructive Examination 2021 - ASME B31.3 Process piping 2020 - ASME Boiler & Pressure Vessel Code Section VIII-1, Pressure Vessels 2021. - AWS D1.1-D1.1M 2020 Structural Welding Code 2020. - ASME IX-2021 Welding, Brazing, and Fusing Qualifications - ASTM-E94 Standard Guide for

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan – Amarah - Awasha	Organization name: Engineering Constructional Lab	Accreditation no.: TL 129
Signature:  Eng. Abdul Wahid M. Ibrahim Director General of IQAS	Accreditation is valid: From 19/5/2025 To 23/4/2027	Issue no.: 004

			Radiographic Examination - ASTM-E747 Standard Practice for Design, Manufacture and Material Grouping Classification
Mechanical	Welded Joints	UT: Ultrasonic test	- ASTM E164 - ISO 17640 - ASME Boiler & Pressure Vessel Code Section V, Non-destructive Examination 2021 - ASME B31.3 Process piping 2020 - ASME B16.25 Butt welding ends 2017 - ASME Boiler & Pressure Vessel Code Section VIII-1, Pressure Vessels 2021 - AWS D1.1-D1.1M 2020 Structural Welding Code 2020
Physical	Reaction to fire tests — Ignitability of products subjected to direct impingement of flame(Single-flame source test)	Sandwich Panel	- ISO 11925-2