

شهادة اعتماد

رقم TL 089



يقر نظام الاعتماد العراقي بأن:

مختبرات المكتب الاستشاري الهندسي / كلية الهندسة / جامعة النهرين
العراق - بغداد - الجادرية

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

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية

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 ٢٠٢٦/٩/١٥ الى ٢٠٢٨/٩/١٤

تاريخ منح الاعتماد لأول مرة

٢٠٢٢/٩/٢٦

فالح ساري
وزير المالية
وزير التخطيط/ وكالة

محمد ايدن عمر
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 089



Iraqi Accreditation System Certify that:

**Engineering Consultancy Bureau Laboratories/
College of Engineering /Al-Nahrain University**
Iraq – Baghdad – Al-Jadryia

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
- Polymer 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

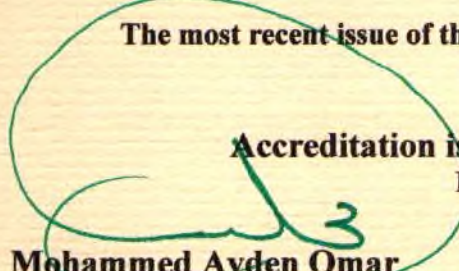
The most recent issue of the accreditation scope is available on IQAS website

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

Accreditation is valid From 15/9/2026 To 14/9/2028

Initial accreditation date

26/9/2022


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 – Baghdad – Al-Jadryia	Organization name: Engineering Consultancy Bureau Laboratories/College of Engineering /Al-Nahrain University	Accreditation no.: TL 089
Signature: Abdul Wahid M. Ibrahim Deputy General Manager	Accreditation is valid: From 15/9/2026 To 14/9/2028	Issue no.: 004

Testing Field	Type of test	Test Object or Product	Reference to Standardized Method
Mechanical	Determination of Compressive Strength	Concrete Cube	Iraqi guide no. 348 BS EN 12390-3
Physical	Determination of Density	Concrete Cube	Iraqi guide: 247
Physical and Mechanical Testing	Determination of Density	Sub base	ASTM D1556 M
	Determination of Grading (sieve analysis)		ASTM D1241
	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort		ASTM D1557
	Determination of Atterberg limits (Liquid, Plastic Limits and plasticity Index)		ASTM D4318-17
	Determination of California Bearing Ratio		ASTM 1883
	L.A. abrasion test		ASTM D2486
	Determination of Finer than 0.075 mm		ASTM D1140
Chemical	Determination of TSS, CL, SO ₃ , and Organic content	Soil	BS 1377, Earth Manual E8
Physical and Mechanical Testing	Determination of Field Density		ASTM D2937
	Determination of Atterberg limits (Liquid, Plastic Limits and plasticity Index)		ASTM D4318-17
	Determination of Maximum Dry Density		ASTM D7263
	Determination of California Bearing Ratio		ASTM 1883
	Determination of Finer than 0.075 mm		ASTM D1140
Chemical	Determination of TSS, CL, SO ₃ , and		BS 1377, Earth

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	Organic content		Manual E8
Physical and Mechanical Testing	Marshall Stability and Flow and Bulk Density and Air Void Content of Asphalt Mixtures	Asphalt	ASTM D6927
	Standard Test Method for Asphalt Content of Asphalt Mixture and Sieve Analysis		ASTM 6307 ASTM D136
	Determination of Compaction Degree and Thickness for Asphalt Pavement		ASTM D3549
Physical and Mechanical Testing	Determination of Breaking strength	Bituminous Sheet Material	ASTM D5147
	Determination of Pliability		
	Determination of Thickness		
	Determination of Loss on Heat		ASTM D146
Physical and Mechanical Testing	Weight per litter Test	Emulsified Asphalt	ASTM D1227
	Residue by evaporation Test		I.Q.S 1173
	Ash content Test		
	Water content Test		
	Flammability Test		
	Heat Test		
	Flexibility Test		
Physical and Mechanical Testing	Kinematic Viscosity Test	Cutback Asphalt	ASTM D2037
	Flash Point Test		ASTM D 2028
	Residue from Distillation to 360 C ⁰		ASSHTO M81
	Residue Solubility in Trichloroethylene		AASHTO M82
	Test on residue Test Viscosity at 60 C ⁰		
	Test on residue Test Viscosity at 25 C ⁰		
Physical and Mechanical	Cone Penetration Test	Sealants and Fillers, Hot and Cold Applies for	ASTM D5329
	Flow Test		I.Q.S 1110
	Bond Test		I.Q.S. 1136

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Testing		Joints and Cracks	
Physical and Chemical Testing	Penetration Test	Asphalt used in Roofing	ASTM D36 ASTM D92 ASTM D113 ASTM D5 I.Q.S 1196
	Ductility Test		
	Flash Point Test		
	Softening Point		
	Solubility in Trichloroethylene		
Physical Testing	Surface Regularity of Pavement	Asphalt Pavement	SORB R 9
Physical and Chemical Testing	Determination of Grading (sieve analysis)	Fine Aggregate (Sand)	IQS 45
	Determination of Finer than 0.075 mm		
	Determination of SO ₃ contents		
Physical and Chemical Testing	Determination of Grading (sieve analysis)	Coarse Aggregate (Gravel)	IQS 45
	Determination of Finer than 0.075 mm		
	Determination of SO ₃ contents		
Physical and Mechanical Test	Determination of Compressive Strength	Concrete Core	Iraqi Guide No. 1 Iraqi Guide No. 247
	Determination of Density		
Physical and Mechanical Test	Determination of Dimensions	Concrete Masonry units	I.Q.S 32 ASTM C140
	Determination of Absorption		
	Determination of Compressive Strength		
Physical and Mechanical Test	Determination of Dimensions	Precast Concrete Flags	I.Q.S 1107
	Determination of Absorption		
	Determination of Flexural Strength		
Physical and Mechanical Test	Appearance	Terrazzo Tiles	I.Q.S 1042
	Determination of Dimensions		
	Determination of Absorption		
	Determination of Flexural Strength		

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Physical and Mechanical Test	Appearance	Concrete Kurb Units	ISO 1340 I.Q.S 5164
	Determination of Dimensions		
	Determination of Absorption		
	Determination of Flexural Strength		
Physical and Mechanical Test	Determination of Dimensions	Non-Loading Bearing Concrete Masonry Units	I.Q.S 5190
	Determination of Absorption		
	Determination of Compressive Strength		
Physical and Mechanical Test	Appearance	Ceramic Tiles	I.Q.S 1704
	Determination of Dimensions		
	Determination of Absorption		
	Determination of Flexural Strength		
Physical and Mechanical Test	Determination of Dimensions	Concrete Interlocking Paving Units	ASTM C140 I.Q.S 1606
	Determination of Absorption		
	Determination of Compressive Strength		
Chemical	Zinc Coating Thickness	Zinc calvinized coating on Iron and Steel Products	ASTM A90 ASTM A123
Physical & Chemical & Mechanical testing	Determination of TSS-CL-SO ₃ -Organic Content (Soil) Ph-CL-SO ₄ -TDS (Water)	Soil Investigation	BS 1377 / Earth Manual E8
	Determination of Atterberg limits (Liquid, Plastic Limits and plasticity Index)		ASTM D 4318
	Specific Gravity		ASTM D 854
	Unconfined Compression Test		ASTM D 2166
	Determination of Direct Shear Test		ASTM D 3080
	Consolidation Test		ASTM D 2435

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	Determination of Grain Size Analysis		ASTM D422
	Determination of Unit Weight		BS 1377
	Field Standard Penetration Test		ASTM D1586
	Natural Water Content		ASTM D 2216
Physical & Chemical & Mechanical testing	Determination of Compressive Strength	Cement	I.Q.S 5
	Determination of Setting Time		
	Determination of Soundness and Fineness		
	Determination of Fe ₂ O ₃ Contents		
	Determination of Al ₂ O ₃ Contents		
	Determination of MgO Contents		
	Determination of CaO Contents		
	Determination of SiO ₂ Contents		
	Determination of SO ₃ Contents		
	Determination of Loss of Ignition		
	Determination of Insoluble Residue		
Mechanical Testing	Determination of Compressive Strength	Gypsum	I.Q.S 28
	Determination of Modulus of Rupture		
	Determination of Setting Time		
	Determination of Hardness		
Physical & Mechanical testing	Determination of Compressive Strength	Clay Building Bricks	I.Q.S 24
	Determination of Dimensions		I.Q.S 25
	Determination of Absorption		
	Appearance		
	Determination of Efflorescence		
Physical and Mechanical Testing	Determination of Tensile strength	Carbon-Steel wire and welded wire reinforcement	ASTM A370 / A615
	Determination of Bending		
	Determination of Elongation		
	Determination of Weight		
	Determination of Dimensions		

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	Determination of Spacing	Reinforcing	
Physical and Mechanical Testing	Determination of Surface Quality	Polyvinyl Chloride Pipes (PVC- U) Pipes	DIN 8061-8062 Guide NO.215
	Determination of Tolerance and out of Roundness		
	Determination of Long -Term Hydrostatic Pressure		
	Determination of Weight		
Chemical Testing	Determination of Toxicity content		
Physical and Mechanical Testing	Determination of Surface Quality	Ductile Iron Pipes, Fittings	ISO 2531 Guide NO.215
	Determination of Tensile strength		
	Determination of Yield Strength		
	Determination of Elongation		
	Determination of Dimensions		
	Determination of Cement Mortar Lining Thickness		
	Determination of Long -Term Hydrostatic Pressure		
	Determination of Weight		
Chemical Testing	Determination of Toxicity content		
Physical and Mechanical Testing	Determination of Thickness	Steel, Seamless Black Steel Pipes	ASTM A 370 ASTM A 53 ASTM A106 Guide NO.215
	Determination of Tensile strength		
	Determination of Yield Strength		
	Determination of Elongation		
	Determination of Dimensions		
Chemical Testing	Determination of Toxicity content		
Physical and Mechanical	Determination of Surface Quality	Polypropylene	DIN 8077-8078 Guide NO.215
	Determination of Tolerance and out of		

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Testing	Roundness	(PP) Pipes	
	Determination of Long -Term Hydrostatic Pressure		
	Heat Reversion		
Chemical Testing	Determination of Toxicity content		
Physical and chemical Testing	Determination of Kinematic viscosity	Prime Coat	ASTM D2027
	Determination of Distillation test		
	Determination of percent volume by difference Tests on residue from distillation		
	Determination of Ductility		
	Determination of Solubility		
Physical and chemical Testing	Determination of Kinematic viscosity	Tack Coat	ASTM D2028 ASTM D2028M
	Determination of Distillation test		
	Determination of percent volume by difference Tests on residue from distillation		
	Determination of Ductility		
	Determination of Solubility		
Physical Testing	Determination of Dimensions	Gypsum Board	ASTM C1396/C1396M
	Determination Flexural Strength (Breaking Load)		
	Determination of Water Absorption		
	Determination of Weight (Mass per Unit Area)		
Mechanical & Physical Testing	Determination of Dimensions	Cement Board	ASTM C1186
	Determination Flexural Strength (Breaking Load)		
	Determination of Water Absorption		
	Determination of Weight (Mass per Unit		

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	Area)		
Mechanical & Physical Testing	Determination of Tensile strength	Aluminum Shapes	ASTM B221/B221M ASTM B308/B308M ASTM B209
	Determination of Yield strength		
	Determination of Elongation		
	Determination of Hardness		
Mechanical & Physical Testing	Bulk Specific Gravity & Water Absorption	Granite	ASTM C615
	Compressive Strength		
	Determination of Modulus of Rupture		
	Determination of Flexural Strength		
	Determination of Abrasion Resistance		
Mechanical & Physical Testing	Determination of Modulus of Rupture	Serpentine Dimension Stone	ASTM C1526
	Determination of Flexural Strength		
	Determination of Abrasion Resistance		
	Bulk Specific Gravity & Water Absorption		
	Determination of Compressive Strength		
Mechanical & Physical Testing	Determination of Specific Gravity	Rock Boulder	ASTM D4992 ASTM D5312 ASTM D5519 ASTM D5240
	Determination of Water Absorption		
	Determination of Compressive Strength		
	Determination of Modulus of Rupture		
	Determination of Flexural Strength		
Physical Testing	Determination of Density	Interior Wall Paints	EN 13300
	Determination of Viscosity		
	Determination of Drying Time		
Physical Testing	Determination of Density	Exterior Wall Paints	EN 1062
	Determination of Viscosity		
	Determination of Drying Time		
Mechanical Testing	Determination of Tensile strength	Structural Steel Sections	ASTM A36
	Determination of Yield strength		
	Determination of Elongation		

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Mechanical Testing	Determination of Dimensions	Manhole Covers & Frames	BS EN 124
	Determination of Breaking Load		
Mechanical & Physical Testing	Determination of Dimensions	Concrete Pipes	ASTM C76
	Determination of Load at First Crack		
	Determination of Load at Ultimate Failure		
	Determination of Ovality		
Mechanical & Physical Testing	Dynamic Shear Rheometer	Asphalt Binder	ASTM D7175
	The Multiple Stress Creep Recovery (MSCR)		ASTM D7405
	Rolling Thin Film Oven (RTFO)		ASTM D2872
	Dynamic Shear Rheometer		ASTM D7175
	Pressure Ageing Vessel (PAV)		ASTM D6521
Mechanical & Physical Testing	Bending Beam Rho meter (BBR)	Asphalt Binder	ASTM 6648
	Determination of Rotational Viscosity	Asphalt Binder	ASTM 4402
	Wheel Truck Test	Asphalt Binder	ASHTOO T324