

شهادة اعتماد

رقم TL 007



يقر نظام الاعتماد العراقي بأن:
مختبر الاحمد للاستشارات الهندسية والفحوصات الانشائية
العراق - بغداد - الوزيرية

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
- اختبارات الاجهزة والمعدات الكهربائية والالكترونية

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 2025/12/12 الى 2027/12/11
تاريخ منح الاعتماد لاول مرة
2016/11/10

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

محلين
محمد أيمن عمر
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 007



Iraqi Accreditation System Certify that:

Al-Ahmed Laboratory for Engineering Consultancy and Construction Testing

Iraq – Baghdad- Al-Wazireya

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
- Electrical & Electronic Devices 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 12/12/2025 To 11/12/2027

Initial accreditation date

10/11/2016

Mohammed Ayden Omar
Director General of IQAS

Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

	<p style="text-align: center;">استمارة مجال الاعتماد Scope of Accreditation form</p>	<p style="text-align: center;">نظام الاعتماد العراقي IQAS</p>
<p>Organization address: Iraq – Baghdad- Al-Wazireya</p>	<p>Organization name: Al-Ahmed Laboratory for Engineering Consultancy and Construction Testing</p>	<p>Accreditation no.: TL 007</p>
<p>Signature: Mohammed Ayden Omar Director General of IQAS</p>	<p>Accreditation is valid: From 12/12/2025 To 11/12/2027</p>	<p>Issue no.: 005</p>

Testing Field	Type of Test	Test Object or Product	Reference to Standardized Method
Mechanical	Test for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine	Aggregate	ASTM C131 / C131M – 2020
Mechanical	Test for unconfined compressive strength of cohesive soil	Soil	ASTM D2166-16
Mechanical	Test for laboratory compaction characteristics of soil using standard effort (600 kN-m/m ³)	Soil	ASTM D698 - 12e2
Mechanical	Test methods for laboratory compaction characteristics of soil using modified effort (2,700 kN-m/m ³)	Soil	ASTM D1557-12e1
Mechanical	Test for California bearing ratio (CBR) of laboratory-compacted soils	Soil	ASTM D1883-2021
Mechanical	Determination of time of setting by Vicat needle	Cement	ASTM C191-19 Iraqi guide No.198-1990
Mechanical	Determination of compressive strength	Cement	ASTM C109-2021 Iraqi guide No.198-1990
Mechanical	Determination of cement strength	Cement	BS EN 196-1-2016
Mechanical	Determination of compressive strength	Concrete	EN 12390-3-2020
Mechanical	Determination of compressive strength	Clay Bricks	IQS:24 (1988) IQS:25 (1988)
Mechanical	Marshall Stability and Flow of Asphalt Mixtures	Asphalt Mixture	ASTM D6927 – 2022
Mechanical	Standard test method for asphalt content of Asphalt Mixture by ignition method	Asphalt Mixture	ASTM D6307 - 19 (69B)
Mechanical	Standard test method for penetration test for Bitumen materials	Asphalt Mixture	ASTM D5-2020

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Physical	Test for sieve analysis of fine and coarse aggregates	Aggregate	ASTM C136M – 2019
Physical	Test for density and unit weight of soil in place by sand-cone method	Soil	ASTM D1556M-15
Chemical	Chemical analysis by X-ray fluorescence	Cement	EN 196-2:2013
Chemical	Determination of SO ₃ content	Aggregate	Iraqi guide no.500:2018
Chemical	Determination of TDS content	Water	ASTM C1602-2022
Chemical	Determination of PH	Water	ISO 4316:1977
Non-destructive test (NDT)	Test for pulse velocity through concrete	Concrete	ASTM C597 – 2022
Non-destructive test (NDT)	Test for rebound number of hardened concrete	Concrete	ASTM C805M – 18
Mechanical	Determination of tensile strength	Steel Reinforcing Bars	ASTM A370-23 ASTM A615-20
Mechanical	Determination of yield strength	Steel Reinforcing Bars	ASTM A370-21 ASTM A615-20
Mechanical	Determination of elongation	Steel Reinforcing Bars	ASTM A370-21 ASTM A615-20
Mechanical	Bending testing	Steel Reinforcing Bars	ASTM A370-21 ASTM A615-20
Physical	Consolidation - One Dimensional Properties (Oedometer)	Soil	BS 1377: Part 5
Physical	Liquid and plastic limits (Atterberg limits)	Soil	BS 1377: Part 2
Mechanical	Determination of modulus of rupture and breaking strength	Ceramic tiles	ISO 10545-4
Mechanical	Determination of tensile strength	Steel / Reinforcing Bars	ISO 15630 – 1
Mechanical	Determination of tensile strength	Steel	EN ISO 6892 – 1

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Sampling	Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils	Soil	ASTM D1586/D1586M-18e1
Sampling	Thin-Walled Tube Sampling of Fine-Grained Soils for Geotechnical Purposes	Soil	ASTM D1587/D1587M-15
Physical	Plate Loading Test	Soil	ASTM D1196
Physical	Determination of shear strength by Direct Shear	Soil	BS 1377 Part 7
Physical	Determination of the undrained shear strength in tri-axial compression	Soil	BS 1377 Part 7
Physical	Density of Soil in Place by the Drive-Cylinder Method	Soil	ASTM D2937
Sampling	Sampling and Testing	Concrete Masonry Units	ASTM C140
Mechanical	Determination of compressive strength	Concrete Interlocking Paving Units	IQS 1606/2017 IRG 969/2001
Mechanical	Determination of Transverse loading	Pre- Cast Concrete Tiles	IQS 1107/1987 IRG 995/2002
Physical	Determination of dimensions	Plastic Pipe	ISO 3126
Chemical	Dichloromethane resistance at specified temperature (DCMT)	UPVC Pipe	EN ISO 9852-2017
Electrical	- Conductor resistance - Insulation resistance - Current meter - Thickness and Dimensions	Electrical Cables	IEC 60502
Chemical	Weight [Mass] of Zinc or Zinc-Alloy Coatings	Steel	ASTM A90/A90M
Mechanical	Determination of tensile adhesion strength for tile adhesives	Cementitious Tile Adhesive	EN 12004 - Part 2
Mechanical	Determination of tensile properties	Plastic	ISO 527-1
Physical	- Fineness - Setting Time - Compression Strength	Gypsum for Building	IQS 28/2010 IRG 1042/2011

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Mechanical	Obtaining and Testing Drilled Cores	Concrete	ASTM C42/C42M
Geophysical	<ul style="list-style-type: none"> - Soil Resistivity - Ground Penetrating Radar (GPR) - Downhole Seismic Testing - Crosshole Seismic Testing 	Soil	ASTM G57 ASTM D6432 ASTM D7400/D7400M ASTM D4428/D4428M
Physical Testing	Ménard Pressuremeter test	Soil	BS EN ISO 22476-4:2012
Physical and Mechanical	Bituminous Sheet Material	Bitumen	ASTM D5147/D5147M-18
Physical and Mechanical	Gully and manhole tops	Different materials	EN 124