

شهادة اعتماد

رقم TL 015



يقر نظام الاعتماد العراقي بأن:
مختبر فوجرو ميدل ايست بي في
العراق - البصرة - حي المعقل

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

- اختبارات المواد الانشائية
- اختبارات المواد الكيميائية

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 ٢٠٢٦/٧/٢٠ الى ٢٠٢٨/٧/١٩
تاريخ منح الاعتماد لأول مرة
٢٠١٧/١٠/١٢

فالح سباري
وزير المالية
وزير التخطيط/ وكالة

محمد ايمن عمر
مدير عام الهيئة/ وكالة

ACCREDITATION CERTIFICATE

No. TL 015



Iraqi Accreditation System Certify that:

Fugro Middle East B.V. Laboratory

Iraq — Basra — Al-Maaqal

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
- Chemical 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

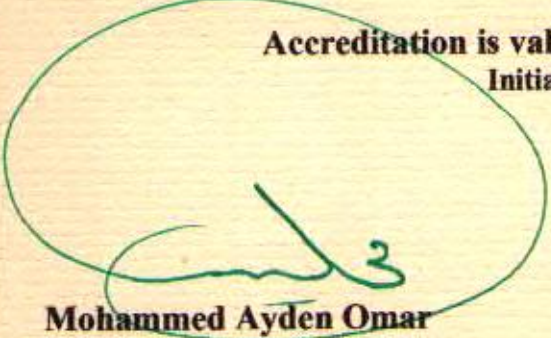
The most recent issue of the accreditation scope is available on IQAS website

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

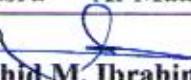
Accreditation is valid From 20/7/2026 To 19/7/2028

Initial accreditation date

12/10/2017


Mohammed Ayden Omar
Director General of IQAS


Fahih Sari
Minister of Finance
Minister of Planning

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq — Basra — Al-Maaqal	Organization name: Fugro Middle East B.V. Laboratory	Accreditation no.: TL 015
Signature:  Abdul Wahid M. Ibrahim Deputy General Manager	Accreditation is valid: From 20/7/2026 To 19/7/2028	Issue no.: 008

Testing Field	Type of test	Test object or Product	Reference to Standardized Method
Physical/ Mechanical	Determination of water (moisture) of soil & Rock by mass	Soil & Rock	BS 1377 part 2: 1990 Cl.3 ASTM D2216-19
Physical/ Mechanical	Standard test method for Liquid limit, plastic limit & plasticity index	Soil	BS 1377 part 2: 1990 Cl. 4.5/5.3 ASTM D4318-17
Physical/ Mechanical	Standard test method for particle size analysis	Soil	BS 1377 part 2: 1990 Cl. 9.2/9.3 ASTM D6913-17
Physical/ Mechanical	Triaxial test (UU+CU+CD)	Soil	BS 1377-part 7 Cl. 8, BS 1377 part 8 Cl. 7 BS 1377-part 8 Cl. 8 ASTM D2850/4767/7181-21
Physical/ Mechanical	Direct sheer	Soil	BS 1377: Part 7 1990 Cl. 4.5.4 ASTM D3080-11
Chemical	Acid soluble chloride content	Soil	BS 1377: Part 3 1990 clause 7.3
Chemical	Water soluble chloride content of soil	Soil	BS 1377: 1990 Part 3 clause 7.2
Chemical	pH value of soil	Soil	BS 1377: Part 3 1990 clause 9.5
Physical/ Mechanical	Dry density moisture content relationship using 4.5 kg rammer for medium gravel size particles	Soil	BS 1377 : Part 4: 1990 test 3.5 & 3.6 ASTM D1557-12
Physical/ Mechanical	Determination of CBR	Soil	BS 1377 : Part 4: 1990 Cl.7 ASTM D1883-21
Physical/ Mechanical	In situ density & water content - by sand replacement method (large pouring cylinder) - by nuclear method	Soil	BS 1377: Part 9 1990 Cl 2.2 & CL 2.5 ASTM D1556-15 ASTM D 6938-15
Physical/ Mechanical	Sedimentation by Hydrometer method	Soil	BS 1377 : Part 2 1990 Cl. 9.5 ASTM D7928-17
Physical/ Mechanical	Oedometer (One dimensional consolidation test)	Soil	BS 1377 : Part 5 1990 Cl.3 ASTM D2435-11
Physical/ Mechanical	Unconfined compression test	Rock	ASTM D 7012 Cl 8.1.1 and D 4543
Hardened Concrete	Determination of Compressive strength of concrete cubes	Hardened Concrete	BS EN 12390: Part 3 : 2009
Chemical	Acid Soluble Sulphate Content of soil	Soil	BS 1377 Part 3 Clause 5.2
Chemical	Determination of carbonate content	Soil	BS 1377: Part 3: 1990: Cl 6.3, Amd 9028: 1996

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Physical/ Mechanical	Determination of particle size distribution (Wet & Dry)	Aggregates	BS EN 933 Part 1:2012
Physical/ Mechanical	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Aggregates	ASTM C 131
Physical/ Mechanical	Methods of test for soils for civil engineering purposes. Part 9: In-situ penetration tests – Determination of the penetration resistance using the split –barrel sampler (the standard penetration test SPT)	Soil	BS 1377 Part 9 Section 3.3
Physical/ Mechanical	Code of practice for site investigations section 3: Field investigations sampling the ground	Soil	BS 5930 Clause 22
Physical/ Mechanical	Code of practice for site investigations: Section 6: Description of soils and rocks: -Description of soils -Description and classification of rocks	Soil	BS 5930 Section 41 & 44 Clark and Walker
Physical/ Mechanical	Code of practice for site investigations: Section 6: Description of soils and rocks. Description and classification of rocks Description of rock masses-Core recovery	Rock	BS 5930 Clause 44.4.4
Physical/ Mechanical	Code of practice for site investigations: Section 6: Description of soils and rocks. Description and classification of rock Description of rock cores	Rock	BS 5930 Clause 44 & Clark and Walker
Physical/ Mechanical	Code of practice for site investigations: Section 7 Reports and interpretation Geotechnical reporting	Rock	BS 5930 Section 7
Physical/ Mechanical	Code of practice for site investigations: Section 3 Field investigations. Rotary	Rock	BS 5930 Clause 20.7.3

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	open hole drilling and rotary core drilling- Rotary core drilling		
Physical/ Mechanical	Code of practice for site investigations: -Sections 3 Field investigations ground water samples	Groundwater	BS 5930 Clause 23.3
Physical/ Mechanical	Asphalt content of Hot-Mix asphalt by ignition method	Asphalt	ASTM.D6307
Physical/ Mechanical	Preparation of Bituminous Specimens using Marshall Apparatus	Asphalt	ASTM D6926-24
Physical/ Mechanical	Marshall Stability & flow	Asphalt	ASTM D6927-15
Physical/ Mechanical	Bulk specific gravity & density of Marshall specimen	Asphalt	ASTM D2726
Physical/ Mechanical	Theoretical maximum specific gravity (GMM) and density of asphalt mixture	Asphalt	AASHTO-T209
Physical/ Mechanical	Coring Sampling Compacted Bituminous Mixture for Laboratory Testing (Coring)	Asphalt	ASTM.5361
Physical/ Mechanical	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	Asphalt	ASTM.D3549-93a
Physical/ Mechanical	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures (core sample)	Asphalt	ASTM.D2726
Physical/ Mechanical	Surface Level (Flatness)	Asphalt	HMA Concrete Pavement Section R9-13 (Iraqi Standard)
Physical/ Mechanical	Surface Level (Transverse)	Asphalt	HMA Concrete Pavement Section R9-13 (Iraqi Standard)