وزارة التخطيط الهيأة العراقية للاعتماد IQAS شهادة اعتماد رقم TL 015 يقر نظام الاعتماد العراقي بأن: ختبر فوجرو میدل ایست بی فی 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 IOAS الخاصة بالاعتماد مجال الاعتماد المرفق بالشهادة يعتبر جزءا لايتجزء منها يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني https://iqas.mop.gov.iq يكون الاعتماد نافذا من ٢٠٢٥/١٧ الى ٢٠٢٥/٢٦ ٢٠ تاريخ منح الاعتماد لاول مرة T.14/1./17 Lee أ.د. محمد على تميم د. محمد لطيف أحمد نانب رئيس مجلس الوزراء مدير عام الهيأة العراقية للاعتماد وزير التخطيط





Iraqi Accreditation System Certify that:

Fugro Middle East B.V. Laboratory

Iraq -Barsa- 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 27/5/2024 To 26/5/2026 Initial accreditation date 12/10/2017

Dr. Mohammed Lateef Ahmed General Manager of IQAS Dr. Mohammed Ali Tamim Deputy Prime Minister Minister of Planning



نظام الاعتماد العراقي IQAS

Organization address:
Iraq –Barsa- Al-Maaqal

Signature:

Eng. Abdul Wahid Mohammed
Ibrahim

Director General of IQAS

Organization name:
Fugro Middle East B.V. Laboratory

Accreditation no.:

TL 015

Issue no.:

006

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 open hole drilling and rotary core drilling-Rotary core drilling	Rock	BS 5930 Clause 20.7.3
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 -04

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Signature: Eng. Abdul Wahid Mohammed Ibrahim	Accreditation is valid: From 12/5/2025 To 26/5/2026	Issue no.: 006
Director General of IQAS		

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
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: Insitu 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 Soil	BS 5930 Section 41 & 44 Clark and Walker

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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 CI.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 by sand replacement method (large pouring cylinder)	Soil	-BS 1377 : Part 9 1990 Cl. 2.2 -ASTM D1556-15
Physical/ Mechanical	Sedimentation by Hydrometer method	Soil	-BS 1377 : Part 2 1990 cl. 9.5 - ASTM D7928-17
Physical/ Mechanical	Odometer (One dimensional consolidation test)	Soil.	-BS 1377 : Part 5 1990 Cl.3 -ASTM D2435-11

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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 Mixtures 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)