وزارة التخطيط
الهيأة العراقية للاعتماد
IQAS

شـــهـادة اعتـــمـاد

رقم TL 004

يقر نظام الاعتماد العراقي بأن:

مختبر شركة الفاو للفحوصات والاستشارات الهندسية والبيئية

العراق – البصرة - الرباط الكبير– حي الغدير - ياسين خربيط

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

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS 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 ٢٠٢٤/٦/٤ الى ٢٠٢٦/٦/٣
تاريخ منح الاعتماد لاول مرة
٢٠١٦/١/٧

د. محمد لطيف أحمد
مدير عام الهيأة العراقية للاعتماد

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

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 004

Iraqi Accreditation System Certify that:

Laboratory of Al Fao Company for Engineering & Environmental Testing & Consulting

Iraq –Barsa- Alrubat Alkabeer- Al-Ghadeer district- Yaseen Khraibit

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

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 4/6/2024 To 3/6/2026
Initial accreditation date
7/1/2016

Dr. Mohammed Lateef Ahmed
General Manager of IQAS

Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

	استمارة مجال الاعتماد **Scope of Accreditation form**	نظام الاعتماد العراقي **IQAS**
Organization address: **Iraq –Barsa- Alrubat Alkabeer- Al-Ghadeer district - Yaseen Khraibit**	**Organization name :** **Laboratory of Al Fao Company for Engineering & Environmental Testing & Consulting**	**Accreditation no.:** **TL 004**
Signature: **Abdul Wahid Mohammed Ibrahim** **Deputy General Manager**	**Accreditation is valid:** **From 4/6/2024 To 3/6/2026**	**Issue no. :** **005**

Testing field	Type of test	Test object or product	Reference to standardized method
Physical & chemical	Density and unit weight of soil in place by sand-cone method	Soil & Sub base	ASTM D1556/D1556M-15
	Density of soil in place by the drive-cylinder method1		ASTM D 2937-10
	Liquid limit, plastic limit, and plasticity index of soils		ASTM D4318 – 1
	Determination of plastic limit & plasticity		ASTM D4318 – 10
	Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3)		ASTM D1557 – 12
	Determination of California Bearing Ratio (CBR)		ASTM D1883-07
	Classification of Soils for Engineering Purposes (Unified Soil Classification System)		ASTM D 2487 – 06
	Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils		ASTM D1586-11
	One-Dimensional Consolidation Properties of Soils Using Incremental Loading		ASTM D 2435 – 04
	Laboratory Miniature Vane Shear Test for Saturated Fine-Grained Clayey Soil		ASTM D 4648
	Sulfat – Gypsum – Organic – Total Suspended Solid		BS 1377
Physical & chemical	Sieve analysis	Corse and Fine Aggregate	ASTM C33/C136M
	Sulfate Content		BS EN 1337
	Chloride Content		IQS No. 45, BS 812 PART 117
	Soundness of aggregates by use of sodium sulfate or magnesium sulfate $MgSO_4$ or $NaSO_4$		ASTM C88

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	Organic impurities in fine aggregates for concrete		**ASTM C 40**
	Material finer than 75 µm (No. 200) sieve by washing		**ASTM C 117, BS 882**
	Relative Density (Specific Gravity), Bulk Density		**ASTM C128-2022, BS 812 PART 2**
	Determination of moisture content		**BS 812 PART 109**
	Water Absorption		**ASTM C 128**
	Clay lumps and friable particles in aggregates		**ASTM C 142**
	Light weight pieces in aggregates		**ASTM C123**
Mechanical & Chemical	**Carbon steel bars for concrete reinforcement: Yield strength, Ultimate strength and elongation**	**Steel bar**	**ASTM A615:2020, ASTM A 370 BS 4449**
	Bend test for steel reinforcing bars		**ASTM A615:20, ASTM A 370, BS 4449**
	Steel Sections: Yield, Ultimate strength and elongation		**ASTM A 36, ASTM A 370**
	Anchor Bolts: Yield, Ultimate strength and elongation		**F 1554 /ASTM A36, ASTM A 123/A 123M**
	Steel Mesh: Yield, Ultimate strength and elongation		**BS 4483**
	Chemical Analysis: steel bars, Shapes and sheets		**ASTM A 36, ASTM A 751:21**
	Thickness of steel pipe piles, sheet piles and metal sections by ultrasonic pulses Cho contact method		**ASTM E797**
	Galvanize thickness		**ASTM A 153 -ASTM A123**
Chemical & Physical	**Insoluble -LOI-FeO3-CaO-MgO-C3A-LSF-SO3-Al2O3-**	**Cement**	**ASTM C114-C150**
	Fineness		**ASTM C150 M-17**
	Setting Time		
	Air Content		

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	Slump test		**ASTM C150 M-17**
	Compressive Strength		
Physical & Mechanical	**Compressive strength of cube**	**Concrete**	**BS 12390: 2019**
	Compressive Strength of cylindrical specimens		**ACI 301 – ASTM C39**
	Nondestructive testing **1. Test Method for Pulse Velocity Through Concrete**		**ASTM C597-16**
	2. Test Method for Rebound Number of Hardened Concrete		**ASTM C/C805-13a D5873**
	3. Test Method for High-Strain Dynamic Testing of Deep Foundations		**ASTM D4945 – 12**
	Static test **1. Deep Foundations Under Static Axial Tensile Load** **2. Deep Foundations Under Lateral Load** **3. Deep Foundations Under Static Axial Compressive Load** **4. Low Strain Impact Integrity Testing of Deep Foundations**	**Piles**	**ASTM D3689 – 07** **ASTM D3966 – 07** **ASTM D 1143/D 1143M – 07** **ASTM D 5882 – 07**
Chemical	**Water analysis**	**Water**	**ASTM C 1602/C 1602M – 04, IQS 1703 -IQS 417**
Physical	**-Test Method for Penetration of Bituminous Materials**	**Asphalt**	**ASTM D 5-06e1**
	-Test Method for Flash and Fire Points by Cleveland Open Cup Tester		**ASTM D 92**
	- Air Voids **- Max dry density**		**ASTM D 6926**
	- Sieve Analysis of Fine and Coarse Aggregates		**ASTM C136 & ASTM D546 X-SORB /R9**
	- Ductility		**ASTM D113**

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	- Flash point		ASTM D92
	- Say bolt Viscosity		ASHTO M81-2008
	- Flash Point (C°)		
	- Water content (%)		
	- Test Method for Marshall Stability and Flow of Asphalt Mixtures - Marshal creep Flow		ASTM D6927
	Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures		ASTM D2726/D2726M-21
	Saybolt Viscosity		ASHTO T72
	Flash Point (C°)		ASHTO T55
	Water content (%)		ASHTO T79
	Solubility of Asphalt Materials in Trichloroethylene1		ASTM D 2042 – 01 ASTM D 6927
	Distillation		ASTM D41