وزارة التخطيط
الهيأة العراقية للاعتماد
IQAS

# شـــهـادة اعتـــمـاد

رقم TL 005

نظام الاعتماد العراقي
IRAQI ACCREDITATION SYSTEM
IQAS

يقر نظام الاعتماد العراقي بأن:

## مختبر الاعمار الانشائي

العراق- البصرة - تقاطع الطويسة

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 ٢٠٢٤/٩/٣ الى ٢٠٢٦/٩/٢
تاريخ منح الاعتماد لاول مرة
٢٠١٦/٣/٣

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

المهندسة
بان ابراهيم نوروز
مدير عام الهيأة العراقية للاعتماد

Ministry of planning
Iraqi Organization for Accreditation
IQAS

# ACCREDITATION CERTIFICATE

**No. TL 005**

Iraqi Accreditation System Certify that:

## Emar Engineering Lab

Iraq –Barsa- Al-Tuwasia intersection

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 3/9/2024 To 2/9/2026**
Initial accreditation date
3/3/2016

Eng. Ban Ibarhim Nawrooz
General Manager of IQAS

Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

| | | |
|---|---|---|
| | استمارة<br>مجال الاعتماد<br>**Scope of Accreditation form** | نظام الاعتماد العراقي<br>**IQAS** |
| **Organization address:**<br>**Iraq –Barsa- Al-Tuwasia intersection** | **Organization name :**<br>**Emar Engineering Lab** | **Accreditation no.:**<br>**TL 005** |
| **Signature:**<br>**Eng. Ban Ibarhim Nawrooz**<br>**General Manager of IQAS** | **Accreditation is valid:**<br>**From 3/9/2024 To 2/9/2026** | **Issue no. :**<br>**005** |

| Testing field | Type of test | Test object or product | Reference to standard method |
|---|---|---|---|
| Mechanical | Determination of compressive strength | Concrete cube | BS EN 12390-3:2019<br>Iraqi guide No. 348:2017 |
| Physical | Determination of density | Concrete cube | BS EN 12390-7:2019<br>Iraqi guide No. 274:1992 |
| Mechanical | Determination of compressive strength | Clay bricks | IQS No.24<br>IQS No.25 |
| Physical | Determination of dimension | | |
| | Determination of absorption | | |
| | Determination of efflorescence | | |
| Mechanical | Determination of fracture load | Precast concrete flags | IQS No.1107/1988 |
| Physical | Determination of dimensions | | |
| | Determination of absorption | | |
| Physical | Determination of soil density in place by sand cone method | Soil | ASTM D1556-15e1<br>BS 1377 – 9 |
| | Determination of modified maximum dry density and optimum moisture content | | ASTM D1557-21 |
| Physical | Geotechnical: One dimensional consolidation properties of soil using incremental loading | Soil | ASTM D2435 : 20 |
| | Geotechnical: Liquid limit, Plastic limit, and plasticity index of soil | | ASTM D4318 – 17e1 |
| | Geotechnical: Direct shear test of soils under consolidated drained conditions | | ASTM D3080– 23 |
| Physical | Geotechnical : Particle size analysis of soil by sieve and hydrometer | Soil | ASTM D422 (2007e2) |
| | Geotechnical : Unconfined compressive strength of cohesive soil | | ASTM D2166 – 16 |
| | Geotechnical : Laboratory miniature vane shear test for saturated fine grained clayey soil | | ASTM D4648– 24 |

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|---|---|---|
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|---|---|---|---|
| **Physical** | **Bulk specific gravity and density of non-absorptive compacted asphalt mixtures** | **Asphalt** | **ASTM D2726– 21** |
| **Mechanical** | **Resistance to plastic flow of bituminous mixture using Marshall apparatus** | | **ASTM D1559 – 89** |
| **Physical** | **Theoretical maximum specific gravity and density of bituminous paving mixtures** | | **ASTM D2041– 19** |
| **Physical** | **Quantitative extraction of asphalt binder from asphalt mixtures** | | **ASTM D2172– 17** |
| **Non-destructive Test** | **pulse velocity through concrete** | **Concrete** | **ASTM C597 – 22** |
| | **Rebound number of hardened concrete** | | **ASTM C805/C805M – 18** |
| **Mechanical** | **Deep foundation elements under static axial compressive load** | **Piles** | **ASTM D1143 -20** |
| | **Deep foundation elements under static axial tensile load** | | **ASTM D3689 -22** |
| | **Deep foundation elements under static lateral load** | | **ASTM D3966 -22** |
| **Mechanical** | **Determination of tensile strength** | **Reinforcing steel bar** | **ASTM A 615**<br>**ASTM A 370** |
| | **Determination of yield strength** | | |
| | **Determination of elongation** | | |
| | **Bend test** | | |
| **Chemical** | **Chemical analysis of steel products** | **Steel products** | **ASTM A751 – 21** |
| **Non-destructive Test** | **Welding visual inspection** | **Welding** | **ASME sec.V, ASME B31.3, ASNT SNT TC-1A** |
| | **Welding magnetic particle inspection** | | **ASME sec.V, ASME B31.3, ASNT SNT TC-1A** |
| | **Welding liquid penetrant testing** | | **ASME 31.3** |
| | **Welding ultrasonic testing** | | **ASME sec.V, ASME B31.3, ASNT SNT TC-1A** |
| | **Welding radiographic testing** | | **ASTM E94, ASTM E142, ASTM E747, BSEN 25580** |