

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No.TL 086



Iraqi Accreditation System Certify that:

**University of Mosul - College of Engineering
Labs of College of Engineering (Civil, Electrical, Mechanical
and Environmental) and Engineering Consulting Bureau**

Iraq- Nineveh -Mosul- Almajmoaa Althaqafiya

Is accredited according to the requirements of the standard ISO/IEC17025:2017
(General Requirements for the Competence of Testing and Calibration Laboratories)

In the field of:

- Construction Materials Testing
- Metallurgical Materials Testing
- Polymer Materials Testing
- Chemical Materials Testing
- Electrical & Electronic Devices Testing
- Environmental 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

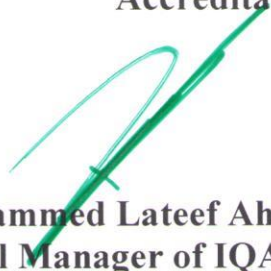
The most recent issue of the accreditation scope is available on IQAS website

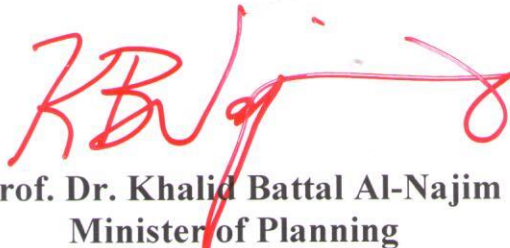
<https://iqas.mop.gov.iq>

Accreditation is valid From 4/9/2022 To 3/9/2024

Initial accreditation date

4/9/2022


Dr. Mohammed Lateef Ahmed
General Manager of IQAS


Prof. Dr. Khalid Battal Al-Najim
Minister of Planning

شهادة اعتماد

رقم TL 086



يقر نظام الاعتماد العراقي بأن:

جامعة الموصل/ كلية الهندسة/ مختبرات كلية الهندسة (المدينة والكهربائية والميكانيكية والبيئة) والمكتب الاستشاري الهندسي

العراق - نينوى - الموصل - المجموعة الثقافية

تم اعتماده وفقا لمتطلبات المواصفة ISO/ IEC 17025:2017

(المتطلبات العامة لاهلية مختبرات الفحص والمعايرة)

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد الكيميائية
- اختبارات الاجهزة والمعدات الكهربائية والالكترونية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية
- اختبارات البيئة

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 ٢٠٢٢/٩/٤ الى ٢٠٢٤/٩/٣

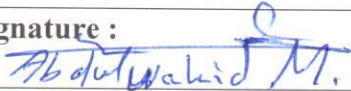
تاريخ منح الاعتماد لأول مرة

٢٠٢٢/٩/٤

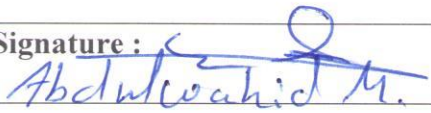
أ.د. خالد بتال النجم
وزير التخطيط

د. محمد لطيف أحمد

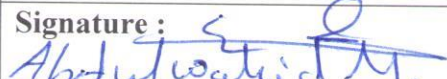
مدير عام الهيئة العراقية للاعتماد/ وكالة

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Nineveh -Mosul- Almajmoaa Althaqafiya	Organization name : University of Mosul - College of Engineering Labs of College of Engineering (Civil, Electrical, Mechanical and Environmental) and Engineering Consulting Bureau	Accreditation no.: TL 086
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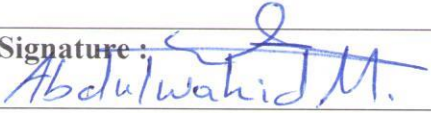
Testing field	Type of test	Test object or product	Reference to standardized method
Mechanical	Determination of compressive strength of concrete cubes	Concrete cubes	BS EN 12390-3
Mechanical	Determination of flexural strength	Mosaic tiles	IQS 1042
Mechanical	Determination of water absorption	Mosaic tiles	IQS 1042
Mechanical	Determination of tensile strength	Reinforcing steel bar	ASTM A370:2021 ASTM A615 -20
Mechanical	Determination of yield strength	Reinforcing steel bar	ASTM A370:2021 ASTM A615 -20
Mechanical	Determination of elongation	Reinforcing steel bar	ASTM A370:2021 ASTM A615 -20
Mechanical	Standard test method for bend testing of material for ductility	Reinforcing steel bar	ASTM E290
Physical	Determination of the propagation velocity of longitudinal stress wave pulses through concrete	Hardened Concrete	ASTM- C597
Physical	Determination of a rebound number of hardened concrete using a spring-driven steel hammer.	Hardened Concrete	ASTM-C805
Physical	preparing, and testing cores drilled from concrete for length or compressive strength or splitting tensile strength determinations	Hardened Concrete	ASTM-C42

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Physical	Determination of Fineness	Gypsum	IQS 28
	Determination of Normal Consistency	Gypsum	IQS 28
	Determination of Setting Time	Gypsum	IQS 28
Mechanical	Determination of compressive strength	Gypsum	IQS 28
Mechanical	Determination of compressive strength	Brick	IQS 548
Physical	Determination of water absorption	Brick	IQS 548
Mechanical	Determination of compressive strength	Concrete Block	IQS 1077 IQS 1129
Physical	Determination of water absorption	Concrete Block	IQS 1077 IQS 1129
Physical	Determination of Fineness	Cement	ASTM- C150 ASTM- C191 ASTM- C109
Physical	Determination of Normal Consistency	Cement	ASTM- C150 ASTM- C191 ASTM- C109
Physical	Determination of Setting Time	Cement	ASTM- C150 ASTM- C191 ASTM- C109
Mechanical	Determination of compressive strength	Cement	ASTM- C150 ASTM- C191 ASTM- C109
Mechanical	Sieve Analysis	Aggregate	ASTM-C33
Mechanical	Determination of the flexural strength of concrete by the use of a simple beam with third-point loading.	concrete	ASTM C78
Mechanical	Determination of the	Bituminous Materials	ASTM D-5

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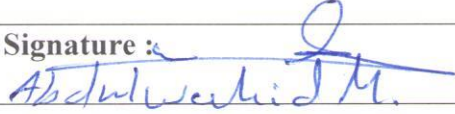
	penetration of semi-solid and solid bituminous materials		
Physical	Determination the softening point of a bituminous material	Bituminous Materials	ASTM D-36
Mechanical	Determination the ductility of a bituminous material	Bituminous Materials	ASTM D-113
Physical	Determination the Flash and Fire Points of a bituminous material	Bituminous Materials	ASTM D-92
Physical	Determination of the specific gravity and density of semi-solid bituminous materials, asphalt cements, and soft tar pitches by use of a pycnometer.	Bituminous Materials	ASTM D-70
Physical	Determination the Saybolt viscosity	Liquid Asphalt wax material	ASTM D-88
Physical	determination of the effects of heat and air on a film of semisolid asphaltic materials.	Asphaltic Materials	ASTM D-1754
Mechanical	determination of specific gravity and absorption of coarse aggregate.	Coarse Aggregate	ASTM C127
Mechanical	Determination of bulk and apparent specific gravity, 23/23°C (73.4/73.4°F), and absorption of fine aggregate.	Fine Aggregate	ASTM C128
Mechanical	This specification covers hot-mixed, hot-laid asphalt, tar, emulsified asphalt, and recycled bituminous paving mixtures for base, binder, leveling, and surface courses.	Hot-Mixed, Hot-Laid Bituminous Paving Mixtures	ASTM D3515
Mechanical	measurement of resistance to	Asphalt Mixtures	ASTM D-6926

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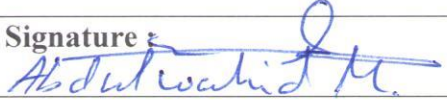
	plastic flow of 4 in. (102 mm) cylindrical specimens of asphalt paving mixture loaded in a direction perpendicular to the cylindrical axis by means of the Marshall apparatus.		
Mechanical	Determination of bitumen in hot-mixed paving mixtures and pavement samples.	Bituminous Paving Mixtures	ASTM D-2172
Mechanical	determination of bulk specific gravity and density of specimens of compacted bituminous mixtures.	Bituminous Mixtures	ASTM D-2726
Mechanical	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester1	Skid Resistance	ASTM E 303
Mechanical	preparing and testing laboratory-fabricated or field-recovered cores of bituminous mixtures to determine the Indirect Tensile (IDT) Strength.	Bituminous Mixtures	ASTM D6931
Mechanical	procedures for preparing and testing laboratory-fabricated slab of bituminous mixtures to determine rut depth values using the wheel tracking device	Bituminous Mixtures	EN 12697-22 / 2003
Mechanical	measuring the compressive strength of compacted bituminous mixtures.	Bituminous Mixtures	ASTM D-1075
Mechanical	Moisture Susceptibility of	Bituminous	ASTM D1074

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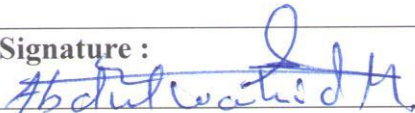
	Bituminous Mixtures		AASHTO T283
Mechanical	Determination of the CBR (California Bearing Ratio) of pavement subgrade, sub base, and base/course materials from laboratory compacted specimens.	Laboratory-Compacted Soils	ASTM D1883
Physical	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	Soil and Rock	ASTM D2216
Physical	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	soils	ASTM D4318
Physical	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	soils	ASTM D4318
Physical	Standard Test Method for Permeability of Granular Soils (Constant Head)	granular soils.	ASTM D2434
Mechanical	Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions	Soils	ASTM D3080
Mechanical	Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading	Soils	ASTM D2435
Mechanical	Standard Test Methods for One-Dimensional Swell or Collapse of Soils	Soils	ASTM D4546
Mechanical	Standard Test Method for Unconfined Compressive	Soils	ASTM D2166

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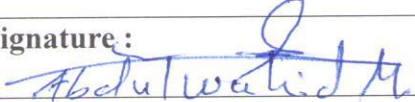
	Strength of Cohesive Soil		
Physical	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer	Soil	ASTM D854
Physical	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	Soils	ASTM D6913
Physical	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the edimentation (Hydrometer) Analysis	Soils	ASTM D7928
Chemical	Standard Test Methods for Determining the Water Content (Moisture)	Peat and Other Organic Soils	ASTM D2974
	Standard Test Methods for Determining the Ash Content		
	Standard Test Methods for Determining the Organic Material		
Chemical	Determination of gypsum content in soils	Soil	Earth manual
Chemical	Determination of total soluble salts in soils	Soil	Earth manual
Chemical	Determination of sulphates (SO ₃) content in soils	Soil	Earth manual
Mechanical	Standard Test Method For Determination Of The Point Load Strength Index Of Rock And Application To Rock Strength Classifications	rocks	ASTM (D5731)

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Mechanical	Standard Test Method for Triaxial Compressive Strength of Undrained Rock Core Specimens Without Pore Pressure Measurements (Withdrawn 2005)	rocks	ASTM (D2664)
Mechanical	Standard Test Method for Slake Durability of Shales and Other Similar Weak Rocks	Rocks	ASTM (D4644)
Mechanical	Standard Test Method for Flexural Strength of Dimension Stone	Stone	ASTM (C880/C880M)
Chemical	Determination of Turbidity	Water	Standards Methods section 2130 B
Chemical	Determination of pH	Water	Standards Methods section 4500-H & B
Physical	Determination of Electrical conductivity	Water	Standards Methods section 2510B
Chemical	Determination of Solids(Total, suspended, dissolved, fixed and volatile)	Water	Standards Methods section 2540(B-C-D-E)
Electrical	– Test conditions – Routine tests – Sample tests – Type tests, electrical – Type tests, non-electrical – Electrical tests after installation	Cables	IEC 60502_1 VDE 0276 - 603
Electrical	Circuit Breakers Tests	Circuit Breakers	IEC / EN 60898 -1
Electrical	Earthing & Lighting Equipment's Tests	Busbar	BS6651
Electrical	Earth Resistance & Resistivity Tests	Soil Electrical equipment	IEC / 61010 -1

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Electrical	Electrical Equipment's Tests	Switch	BS546
Electrical	Light Equipment's Tests	Lamps, light sources, and LED packages	IEC 60810
Mechanical	Determination of tensile strength	Metallic materials	ASTM E8
Mechanical	Determination of yield strength	Metallic materials	ASTM E8
Mechanical	Determination of elongation	Metallic materials	ASTM E8
Mechanical	Hardness testing of Materials	Metallic materials	ASTM E18-20
Chemical	Obtaining the Alloying Elements (Chemical Compositions) of Metallic Materials	Ferrous, Copper, Zinc Aluminum, Nickel, and Magnesium Alloys	ASTM A751
Mechanical	Determination of flexural strength	Ceramic Tiles	IQS 1704
Mechanical	Determination of water absorption	Ceramic Tiles	IQS 1704
Physical	Test methods for dimensions	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for materials	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for workmanship	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for flattening resistance	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for impact resistance	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for pipe stiffness	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785

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Mechanical	Test methods for joining systems	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for extrusion quality	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Mechanical	Test methods for Form of marking for type PSM poly(vinyl chloride) (PVC) sewer pipe and fittings	Pipes (GRP, PVC, UPVC)	ASTM-D3034 ASTM- D1785
Physical	Determination of which epoxy-resin formulations are subject to deboning when used as overlays for concrete when the combination of the two is subjected to temperature changes that may be met in the field.	Epoxy Materials	ASTM C884
Physical	Paint and Related Coatings, Materials, and Applications.	Paint materials	ASTM D-01