

شهادة اعتماد

رقم TL 063



يقر نظام الاعتماد العراقي بأن:

**المختبر الانشائي في المعهد التقني/ العمارة/
الجامعة التقنية الجنوبية**
العراق - ميسان - العمارة - طريق الكحلأ

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

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية
- اختبارات الأجهزة والمعدات الكهربائية والإلكترونية

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد
مجال الاعتماد المرفق بالشهادة يعتبر جزءاً لا يتجزأ منها
يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني

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

يكون الاعتماد نافذاً من ٢٠٢٦/٥/١٩ الى ٢٠٢٨/٥/١٨
تاريخ منح الاعتماد لأول مرة
٢٠٢١/١١/٢٩

فالح ساري
وزير المالية
وزير التخطيط/ وكالة

محمد آيدن عمر
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 063



Iraqi Accreditation System Certify that:

Construction Laboratory in Technical Institute of Amara/ Southern Technical University

Iraq – Missan – Amara – Al-Kahla Street

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
- Polymer Materials Testing
- Electrical & Electronic Devices 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

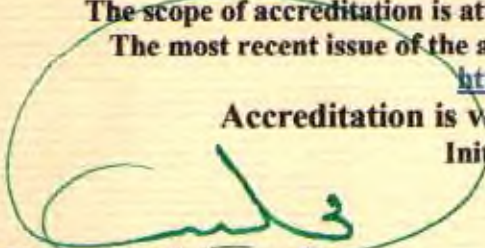
The most recent issue of the accreditation scope is available on IQAS website

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

Accreditation is valid From 19/5/2026 To 18/5/2028

Initial accreditation date

29/11/2021


Mohammed Ayden Omar
Director General of IQAS


Falih Sari
Minister of Finance
Minister of Planning

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Missan-Amara- Al-Kahla Street	Organization name: Construction Laboratory in Technical Institute of Amara/ Southern Technical University	Accreditation no.: TL 063
Signature:  Abdul Wahid M. Ibrahim Deputy General Manager	Accreditation is valid: From 19/5/2026 To 18/5/2028	Issue no.: 004

Testing Field	Type of Test	Test Object or Product	Reference to Standardized Method
Mechanical	Determination of compressive strength	Concrete Cube	Iraqi guide no.348:2017
Physical	Determination of density	Concrete Cube	Iraqi guide no.274:1992
Sampling	Sampling	Fresh concrete	Iraqi guide no.513:1995 Iraqi guide no.284:1991
Physical Non-destructive	Ultrasonic Test	Concrete	ASTM C 597
Physical Non-destructive	Rebound Number of Hardened Concrete (Hammer test)	Concrete	ASTM C 805
Physical (Destructive testing)	Determination of Compressive Strength of cylindrical concrete Specimens	Concrete	AASHTO T 22 ASTM C39M:2017
Mechanical	Density of cylindrical concrete specimens' determination	Concrete	ASTM C39M:2017
Mechanical	Capping of cylindrical concrete specimens	Concrete	AASHTO T 231 ASTM C42:2017
Mechanical	Curing of cylindrical concrete specimen	Concrete	ASTM C42:2016
Mechanical	Determination of tensile strength	Reinforcing steel bar	ASTM A615:2020 ASTM A370:2021
Mechanical	Determination of Yield strength	Reinforcing steel bar	ASTM A615:2020 ASTM A370:2021
Mechanical	Determination of Elongation	Reinforcing steel bar	ASTM A615:2020 ASTM A370:2021
Physical	Determination of Dimensions	B.R.C	Iraqi Guide 154: 1990
Physical	Determination of Tensile strength	B.R.C	Iraqi Guide 154: 1990
Physical	Determination of Dimensions	Steel plate	ASTM A36M-2005
Physical	Determination of Tensile strength	steel plate	ASTM A36M-2005
Physical And Mechanical	Determination of dimensions, Manhole cover Mechanical	Manhole cover	BS EN 124/2015 BS 497: Part 1: 1976

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	pressure, cover, weight, material, grade		
Physical	Determination of Dimensions	Brick	IQS: 24:1988 IQS: 25:1988
Physical	Determination of compressive strength	Brick	IQS: 24:1988 IQS: 25:1988
Physical	Determination of absorption	Brick	IQS: 24:1988 IQS: 25:1988
Physical	Determination of blooms	Brick	IQS: 24:1988 IQS: 25:1988
Physical	Determination of Dimensions	Tile	IQS: 1042 :91
Mechanical	Determination of flexural	Tile	IQS: 1042 :91
Physical	Determination of strength,	Tile	IQS: 1042 :91
Physical	Determination of absorption	Tile	IQS: 1042 :91
Mechanical	Determination of Dimensions, compressive strength, absorption and blooms	Ceramic	Iraqi Guide no256: 1991 Iraqi Standard No. 1074:1992 Iraqi
Mechanical	Determination of Dimensions, flexural strength, absorption	Ceramic	Iraqi Guide no256: 1991 Iraqi Standard No. 1074:1992 Iraqi
Mechanical	Determination of breaking strength	Ceramic	Iraqi Guide no256: 1991 Iraqi Standard No. 1074:1992 Iraqi
Physical	Determination of dimensions	Curbstone	EN1340:2003 Requirement no.9
Mechanical	Determination of flexural	Curbstone	EN1340:2003 Requirement no.9
Physical	Determination of strength,	Curbstone	EN1340:2003 Requirement no.9
Physical	Determination of absorption	Curbstone	EN1340:2003 Requirement no.9
Physical	Gradation and salts	Gravel and Sand	IQS. 30:1969 B.S.812:Part 2:1975

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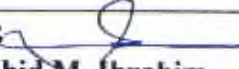
Physical	Sampling	Asphalt	ASTM D979
Physical	Gradation of asphalt	Asphalt	AASHTO T30
Physical	the proportion of asphalt	Asphalt	ASTM D6307
Physical	density of asphalt	Asphalt	ASTM D2726
Physical	creep	Asphalt	ASTMD6926
Physical	Standard test method for theoretical maximum specific gravity and density of bituminous paving mixtures	Asphalt	ASTM D2041
Physical	Fineness	Cement	Iraqi guide no.1998:1990
Physical	Initial setting and final setting	Cement	Iraqi guide no.1998:1990
Mechanical	compressive strength for 3 days and 7 days	Cement	ASTM C109/109M
Chemical	Determination of Insoluble Residue	Cement	Iraqi guide no. 472
Chemical	Determination SO ₃ content	Cement	Iraqi guide no. 472
Physical and Mechanical	Find the bearing capacity of soil in place by means of field loading tests	Soil	ASTM D 1194 – 94
Physical	Find the density and the compaction rate for soil and sub-base in the site	Soil	ASTM D 1557 ASTM D 698 ASTM D2937
Physical	Soil investigation Soil Thin-walled tube sampling of soil for geotechnical purposes	Soil	ASTM D1587:2012
Physical	Soil investigation Soil Determining sub surface liquid level in a borehole or monitoring	Soil	ASTM D4750
Physical	Soil investigation Soil Wet preparation of soil samples for particle size analysis and determination of soil constants	Soil	ASTM D2217

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Physical	Soil investigation Soil exploration and sampling by auger boring	Soil	ASTM D1452
Physical	compaction rate for soil and in site the by Sand- Cone method	Soil	ASTM D 15557
Physical	compaction rate for soil and in site by Nuclear method	Soil	ASTM D 6938
Physical	Standard Test Methods for Laboratory Compaction	Soil	ASTM D 698
Physical	Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method	Soil	ASTM D2937
Mechanical	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	Soil	ASTM D4318
Physical	Soil investigation sieve analysis	Soil	ASTM C136, C117
Physical	Soil investigation density on site	Soil	ASTM D1556, D2937
Mechanical	Soil investigation Standard penetration test (SPT) and spilt -barrel sampling of soil	Soil	ASTM D1586
Mechanical	Standard Test Method for California Bearing Ratio	Soil	ASTM D1883
Physical	Standard Test Methods for Maximum Index Density and Unit Weight Using a Vibratory Table	Soil	ASTM D4253 ASTM D4254
Physical	Standard Test Method for Repetitive Static Plate	Soil	ASTM D1195 ASTM D1196
Mechanical	Standard Test Method for bearing capacity of soil for Static load and footing	Soil	ASTM D1194
Mechanical	Determination of external	GRP pipe	ASTM D2412

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	loading Plastic pipe characteristics		
Physical	Determination of wall thickness	GRP pipe	ASTM D3517 ASTM D3567
Physical	Determination of diameter	GRP pipe	ASTM D3517 ASTM D3567
Mechanical	Standard Test Method for Repetitive Static Plate	U-PVC pipes for drinking water	ASTM D2412 DIN 8061/8062
Mechanical	Standard Test Method for bearing capacity of soil for Static load and footing	U-PVC pipes and fitting for drinking water	ASTM D2412 ASTM D2122 DIN 8061/8062
Mechanical testing	Determination of external loading Plastic pipe characteristics	U-PVC pipes and fitting for drinking water	ASTM D2412 ASTM D2122 DIN 8061/8062
Physical testing	Determination of wall thickness	U-PVC pipes for waste water	ASTM D2412 DIN 1329-1:1999
Physical testing	Determination of diameter	U-PVC pipes and fitting for waste water	ASTM D2412 ASTM D2122 DIN 1329-1:1999
Mechanical testing	Determination of external loading Plastic pipe characteristics	U-PVC pipes and fitting for waste water	ASTM D2412 ASTM D2122 DIN 1329-1:1999
Physical testing	Determination of wall thickness	GRP pipe	ASTM D2412
Physical testing	Determination of diameter	GRP pipe	ASTM D3517 ASTM D3567
Mechanical testing	Determination of external loading Plastic pipe characteristics	GRP pipe Concrete	ASTM D3517 ASTM D3567
Physical	Fineness, initial setting, final setting and compressive strength	Gypsum for Buildings	Iraqi Specification No. 28/2010
Mechanical	Dimensions, compressive strength and absorption	Cellular concrete block (Thermostone)	Iraqi Specification No. 1441/2000
Physical &	Dimensions, compressive	Concrete Masonry	I.Q.S 32

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Mechanical	strength and absorption	Units	ASTM C140
Mechanical	compressive strength, density, wear resistance and absorption	Natural building stone	Iraqi Specification No. 1387/1989
Physical	compressive strength, density, wear resistance and absorption	Marble Dimension Stone	ASTM C503-2010
Electrical testing	Measurement of Conductor Resistance	Electric Cables	IEC 60228:2004
Electrical testing	Insulation Resistance	Electric Cables	60840-1-2011 IEC IEC60502-1-2004
Electrical testing	Injection Current	Electric Cables	IEC60364-5-52-2001
Electrical testing	Test of Temperature Rise	Circuit Breaker	IEC 60898-1-2015 IEC 60227-1-2007
Electrical testing	Measurement of Power Loss	Circuit Breaker	IEC 60898-1-2015
Electrical testing	Test of Tripping Characteristic (Test of Time –Current Characteristic)	Circuit Breaker	IEC 60898-1-2015
Electrical testing	Test of Instantaneous Tripping	Circuit Breaker	IEC 60898-1-2015
Electrical testing	Insulation resistance of the main circuit (Circuit Breaker)	Circuit Breaker	IEC 60898-1-2015
Electrical testing	Insulation resistance of auxiliary circuits (Circuit Breaker)	Auxiliary Circuit (for Circuit breaker)	IEC 60898-1-2015
Electrical testing	Measure The Resistance of Winding Transformer	Electrical Transformer	IEC60076-1-2011 IEEE C57.12.90, IEEE Standard Test Code for liquid-Immersed , Distribution, Power, and Regulating -2010 Transformer; and Guide

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			for Short-circuit Testing of Distribution and Power Transformer (ANSI)
Electrical testing	short-circuit impedance and load loss	Electrical Transformer	IEC60076-1-2011 IEC60076-8-1997 IEEE C57.12.90, IEEE Standard Test Code for liquid-Immersed, Distribution, Power, and Regulating -2010 Transformer; and Guide for Short-circuit Testing of Distribution and Power Transformer (ANSI)
Electrical testing	Measurement of losses and no-load current	Electrical Transformer	IEC60076-1-2011 IEEE C57.12.90, IEEE Standard Test Code for liquid-Immersed, Distribution, Power, and Regulating -2010 Transformer; and Guide for Short-circuit Testing of Distribution and Power Transformer (ANSI)
Electrical testing	Turn Ratio and Phase Displacement test	Electrical Transformer	IEC60076-1-2011 IEEE C57.12.90, IEEE Standard Test Code for liquid-Immersed, Distribution, Power, and Regulating -2010 Transformer; and Guide for Short-circuit Testing of Distribution and

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			Power Transformer (ANSI)
Electrical testing	Test Insulation Resistance	Electrical Transformer	IEC60076-3-2011 IEEE C57.12.90, IEEE Standard Test Code for liquid-Immersed, Distribution, Power, and Regulating -2010 Transformer; and Guide for Short-circuit Testing of Distribution and Power Transformer (ANSI)
Chemical	Analysis metal analyzer X-fay fluorescent, atomic absorption, Optical emission spectrometer	Metal	DIN17100 ASTM A751 EN 10025- 2
Mechanical	Tension testing	Metal	ASTM A370 ASTM A36 ASTM A370 ASTM A572
Mechanical	Bending Test	Metal	ASTM E290 ASTM E855 ISO 7438
Physical	Coating layer Galvanized test	Metal	ISO 1461
Mechanical	Charpy Impact Test	Metal	ASTM E23
Mechanical	Vickers Hardness Test	Metal	ASTM E92 / ISO 6507
Sampling	Preparation of Tension Sample	Metal	ASTM E8M