

شهادة اعتماد

رقم TL 183



يقر نظام الاعتماد العراقي بأن:
مختبرات شركة مناهل الخليج للتجارة والمقاولات العامة والنقل العام
والخدمات النفطية والفحص والتقييس والسيطرة النوعية والتعبئة والتغليف
العراق - البصرة - منفذ ام قصر الحدودي
تم اعتمادها وفقا لمتطلبات المواصفة ISO/ IEC 17025:2017
(المتطلبات العامة لاهلية مختبرات الفحص والمعايرة)
في مجال:

- | | | | |
|--|-----------------------------|--|------------------------------|
| -اختبارات المواد المعدنية | -اختبارات المواد الكيميائية | -اختبارات المواد الانشائية | -اختبارات المواد الغذائية |
| -اختبارات المواد الخشبية | -اختبارات المواد الزراعية | -اختبارات المواد البلاستيكية | -اختبارات مواد الغزل والنسيج |
| -اختبارات الاجهزة والمعدات الكهربائية والالكترونية | | -اختبارات المواد البترولية والبتروكيميائية | |

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 ٢٠٢٤/٩/٢٩ الى ٢٠٢٦/٩/٢٨
تاريخ منح الاعتماد لاول مرة
٢٠٢٤/٩/٢٩

نقلت

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

المهندس
عبد الواحد محمد ابراهيم
ع/ مدير عام الهيئة العراقية للاعتماد

ACCREDITATION CERTIFICATE

No. TL 183



Iraqi Accreditation System Certify that:

**Laboratories of Manahil Al Khaleej Company for General
Trading, Contracting, Public Transport, Oil Services,
Inspection, Quality Standardization and Packaging**

Iraq – Basra - Umm Qasr Border Port

**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:

- | | | | |
|--|------------------------------------|--|-------------------------------------|
| - Food Materials
Testing | -Construction
Materials Testing | -Chemical
Materials Testing | -Metallurgical
Materials Testing |
| -Textile Materials
Testing | -Polymer Materials
Testing | -Agricultural
Materials Testing | -Wood Materials
Testing |
| -Petroleum & Petrochemical 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

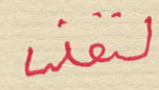
<https://iqas.mop.gov.iq>

Accreditation is valid From 29/9/2024 To 28/9/2026

Initial accreditation date

29/9/2024


**Eng. Abdul Wahid Mohammed Ibrahim
Instead of 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 – Basra - Umm Qasr Border Port	Organization name : Laboratories of Manahil Al Khaleej Company for General Trading, Contracting, Public Transport, Oil Services, Inspection, Quality Standardization and Packaging	Accreditation no.: TL 183
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Testing fields	Type of test	Test object or product	Reference to standardize method
Biological	Detection of Salmonella spp.	Poultry and red meat & their products	ISO 6579.1/2017 (AMD2020) AOAC LNO.07 1204
Biological	Detection & Enumeration of E. coli.	Food fruit	ISO 16649 (AMD.2019)
Biological	Detection and enumeration of Pseudomonas aeruginosa	Drinking Water/ Water quality	ISO 16266
Biological	Determination of Mycotoxins (Ochratoxin, Aflatoxin and T2 toxin)	Food product	AOAC 990.34
Chemical	pH determination in fruit and vegetables	Fruit and vegetables	ISO 1842
Chemical	Detection and identification of pesticide	Food and fruits	AOAC 2007.01
Chemical	Determination of moisture	Food and grain	AOAC 973.41
Chemical	Determination of brix	Food and beverages	AOAC 932.12
Chemical	-Determination of aflatoxin M1 by HPLC method and Immunoaffinity column clean up	Milk and milk products	ISO 14501
Chemical	Determination of aflatoxin B1, and the total content of aflatoxins	Foodstuffs, cereals, nuts and derived products	ISO 16050
Chemical	Determination of deoxynivalenol in — HPLC method with immunoaffinity column cleanup and UV detection	Foodstuffs cereals, cereal products and cereal based foods for infants and young children	BS EN 15891
Chemical	Determination of ochratoxin A in barely and roasted coffee	Coffee	EN 14132

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	HPLC method with immunoaffinity column		
Chemical	Multimethod for the determination of pesticide residues using GC and LC-based analysis following acetonitrile	Foods of plant origin	EN 15662
Chemical	NaCl (Table salt) content	Food products	AOAC Official Method 2015.01
Chemical	Fat content	Food products	AOAC Official Method 937.09 Salt (Chlorine as Sodium Chloride)
Chemical	Acidity (as lactic acid)	Food products	AOAC Of Method 989.05
Chemical	Moisture	Food products	AOAC Official Method 942.15 Acidity (Titratable)
Chemical	Dry matter	Food products	AOAC 930.15
Chemical	Starch	Food products	AOAC Official Method 996.11 Starch
Chemical	Gluten	Food products	AOAC 2018.15-2018 Gluten from Wheat
Chemical	Protein content	Food products	AOAC Official Method 2001.11 Protein
Chemical	pH	Water	ISO 10523
Chemical	EC	Water	ISO 7888
Chemical	TDS	Water	ISO 23446

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Chemical	Detection of heavy metals	Water	ISO 11885:2007
Chemical	Iodine content	Table salt	IQS 111
Chemical	Acesulfame	Soft drink	IQS 1266
Chemical	benzoic acid	Soft drink	ISO 9231
Chemical	Sorbic acid	Soft drink	ISO 9231
Chemical	Aspartame	Soft drink	ISO 9231
Chemical	Caffeine	Soft drink	ISO 9231
Chemical	saccharine	Soft drink	ISO 9231
Chemical	pH	Powder detergent	IQS 1276
Mechanical & Physical	Tensile test and bending	Glass fiber concrete rein or cement bars	GSO 2488/2015
Mechanical & Physical	Compressive strength test	Facing brick solid masonry units made from clay or shale	ASTM C216
Mechanical & Physical	Dimensions and tolerances Flexion resistance	Gypsum board	IQS 1676
Mechanical & Physical	The examination is conducted according to the reference guide No.1042 for physical examination of building plaster	Gypsum for construction	IQS 28
Mechanical & Physical	- Dimensions - Disparity	Silica refractories for use in class melting	IQS 1749

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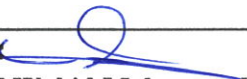
Mechanical & Physical	- Dimensions - Straightness - Perpendicularity - Congruence of panels	Specification for fiber building boards	Standard specification 717
Mechanical & Physical	Determination of density	Fiber building boards definition classification	IQS 1749
Mechanical & Physical	Dimension variation distortion and cracks	Silica refractories for use in glass melting furnaces	IQS 1749
Mechanical & Physical	- Mass loss - Determination of moisture content - Straightness - Dimensions - Perpendicularity	Fiber building boards	IQS 717
Mechanical & Physical	Chips and cracks	Silica refractories for use in glass melting furnaces	IQS 1749
Mechanical & Physical	Aggregate particles in microns	Determination of particle size and shape of aggregates	IQS 30
Mechanical & Physical	Flexor and compression	Portend cement and Clinker.	IQS 5
Mechanical & Physical	- Dimensions - Fracture - Tolerance - Water absorption	terrazzo tiles with one layer for internal USE	IQS 5038
Mechanical & Physical	- Dimensions - Absorption - Compression - Wild	solid concrete interlocking paving units	IQS 1606
Mechanical & Physical	- Appearance dimensions - grain density	Filter sands and filter gravels for water purification filters	IQS:2000/1555

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Mechanical & Physical	- Determination of dissolved silica by mass method	Alkali potential reactivity of coarse and fine aggregates used in concrete cardinal method	IQS 42
Mechanical & Physical	Fine or course aggregate	Aggregate for concrete and building	IQS:45
Mechanical & Physical	Determine the increase and decrease in abrasion or impact wear fine or coarse aggregate	Materials for soil	IQS:1693
Mechanical & Physical	Effect of humidity change after water immersion bending resistance modvivs of elasticity internal cross linking	standard solid panels	IQS 548
Mechanical & Physical	Water absorption drought shrinkage maximum drying shrinkage pressure tolerance	sand-lime blocks and bricks	IQS 548
Mechanical & Physical	- Soft point - Flash point - Permeability - Viscosity temperature	asphalt used in roofing	IQS 1196
Mechanical & Physical	- Residual after evaporation - Non-volatile materials - Water ratio - Drought - Heat - Plasticity - Water resistance - Direct flame check	emulsified asphalt used as protective coating for roofing	IQS 1173

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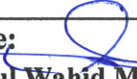
Mechanical & Physical	- Nominal size - flow rate - final connections	building valves	IQS 5008/2017
Mechanical & Physical	- Permeability - softening point - liquidity - correlation - asphalt compatibility	joint and crack sealants ,hot applied for concrete and asphalt pavements	IQS 1110/2016
Mechanical & Physical	- Dimensions - absorption - tolerance - compressive strength	clay building bricks	IQS 24 IQS 25
Mechanical & Physical	- Penetration - Liquidity - correlation	concrete joint sealer , cold application type	IQS 1288/1988
Mechanical & Physical	- Viscosity - distillation - permeability penetration - liquidity - correlation	asphalt primer	IQS 1195/2015
Mechanical	L.O.I	Cement and Gypsum	IQS 472+A5 IQS 273
Mechanical	Setting time by Vicat	Cement	IQS 198+A3
Mechanical	Flexural strength	Cement and Gypsum	IQS 198+A3, IQS 273
Mechanical	Compressive strength	Cement, Gypsum,	IQS 198+A3 IQS1042
Physical	Dimensions	Stones and Cellular Concrete Blocks[thermstone],Clay building brick, Clay	IQS 65/3 IQS 810:09 IQS 24 ASTM C 67

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		facing brick	
Mechanical	Soundness by Le Chatelier	Cement	IQS 198+A3
Chemical	Free Water	Gypsum	IQS 273
Chemical	Combined Water	Gypsum	IQS 273
Physical	Fineness	Gypsum	IQS 28 IQS 1042
Physical	Setting Time	Gypsum	IQS 28 IQS 1042
Physical	Module of rupture	Gypsum	IQS 28 IQS 1042
Mechanical	Dimension & Shape	Terrazzo Tiles	IQS 31
Mechanical	Total Water Absorption	Terrazzo Tiles	IQS 31
Mechanical	Water Absorption by tile-face	Terrazzo Tiles	IQS 31
Mechanical	Transverse Strength	Terrazzo Tiles	IQS 31
Mechanical	Water Absorption	Ceramic tiles and Cellular Concrete Blocks [thermstone], Clay building brick, Clay facing brick	ISO 10545-3:2019, IQS 810:09, IQS 24:1988, ASTM C 67:2021
Mechanical	Dimension & surface quality	Ceramic tiles	ISO 10545- 2:2018
Mechanical	Breaking Strength	Ceramic tiles	ISO 10545- 4:2019
Mechanical	Modulus of Rupture	Ceramic tiles and Dimension Stones	ISO 10545- 4:2019

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Mechanical	Water absorption & bulk density	Dimension Stones	IQS 1387:2017
Mechanical	Standard Test Method for Quantitative Determination of Phases in Portland Cement Clinker by Microscopically Point-Count Procedure	Portland Cement Clinker	ASTM C1356-07
Mechanical	Strength test [with & across fiber grain]	Bitumen felt waterproofing[isogram]	IQS 4+A1:2013
Mechanical	Loss on heating	Bitumen felt waterproofing[isogram]	IQS 4+A1:2013
Mechanical	Thermal stability	Bitumen felt waterproofing[isogram]	IQS 4+A1:2013
Mechanical	Dimension Tolerance	Cellular Concrete Blocks[thermstone]	IQS 810:09
Mechanical	Dry bulk Density	Cellular Concrete Blocks [thermstone]	IQS 810:09
Mechanical	Initial Tensile Adhesion Strength Test	Cementations Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical	Tensile Adhesion Strength after water immersion	Cementations Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical	Tensile Adhesion Strength after heat aging	Cementations Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical	Determination of Slip	Cementations Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical	Extended open time	Cementations Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical	Flexural breaking	Gypsum Board	ASTM C 473:2019
Mechanical & Physical	Flexure and compression	PRE-cast concrete kerbs and channels	IQS 5164/2022

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Biological	Detection and identification Pseudomonas aeruginosa.	Cosmetics	ISO 22717
Biological	Enumeration and detection of aerobic mesophilic bacteria	Cosmetics	ISO 21149:2017
Mechanical & Physical	Check cheripple hot water check	silvered glass mirrors for general purposes	IQS 1137/2020
Mechanical & Physical	Dimensions outer diameter and thickness	seamless steel tubes for heat exchangers	IQS 1750/2022
Mechanical & Physical	- Abrasion resistance - alkali resistance - acid resistance - hot water resistance	baths made from porcelain cast iron	IQS 1688/1991
Mechanical & Physical	Dimensions the parts are non- metallic membrane durability aging of the membrane material	low pressure regulator for vales of LPG cylinders	IQS 1287/1988
Mechanical & Physical	Stretch and elongate and bending	Iron test	ASTM A370 ASTM A615M
Mechanical	- Tensile strength - Yield strength - Elongation	Ribbed carbon-steel bars for concrete reinforcements	ASTM A370 ASTM 615
Mechanical	- Tensile Strength - Yield Strength - Elongation	Ribbed Carbon-Steel Bars for Concrete Reinforcements	ISO 6892-1/2019 ISO 15630-1/2019
Mechanical	- Tensile Strength - Yield Strength - Elongation	Ribbed Carbon-Steel Bars for Concrete Reinforcements	BS 4449/2016
Mechanical	Mass per unit length tolerance	Steel Bars for concrete reinforcement	ASTM E8M:2022, BS 4449:2016

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Mechanical	- Tensile strength - Yield strength - Elongation	Steel Bars for concrete reinforcement	ASTM A370 ASTM A615
Mechanical	- Bend Test - Re-bend test	Steel Bars for concrete reinforcement	ASTM E290:2022, ISO 7438:2016, ISO 7438:2016
Mechanical	Diameter tolerance	Steel Bars for concrete reinforcement	ISO 6892-1:2109
Mechanical	Tensile strength, Yield strength after ageing	Steel Bars for concrete reinforcement	ISO 6892-1:2109, ISO 6892-1:2019
Mechanical	Elongation(after fracture, total Eat max force)	Steel Bars for concrete Reinforcement	ISO 15630-1:2019, ISO 15630-1:2019
Physical	Markings	Steel Bars for concrete reinforcement	ISO 6935:2019
Mechanical	Tensile strength	Textile	IQS 930
Physical	Geometrical Characteristics	PVC-U pipes within the building structure PVC-U pipes for non-pressure underground pipes Polyethylene (PE) pipes for water supply & for drainage	ISO 3126:2005, IQS 1512:2022, IQS 5037:2022, ISO 4427-2:2019
Physical	Impact resistance (round the clock method)	PVC-U pipes	EN ISO 3127:2017, IQS 1512:2022, IQS 5037:2022
Physical	Vicat softening temperature	PVC-U pipes	EN ISO 2507-1:2017 IQS 1512:2022, IQS 5037:2022
Physical	Longitudinal reversion (air oven method)	PVC-U pipes & PE pipes	EN ISO 2505:2005 IQS 1512:2022, IQS 5037:2022, ISO 2505
Chemical	Identification plastic type	Plastic	ISO 11469

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Mechanical & Physical	- Dimensions - resistance to stretching - elongation	PVC insulated and sheathed flat cables for fixed installations	IQS:2313/ 2014
Mechanical & Physical	- Thickness - Bastard - Electrical - Mechanical - Thermal	The rmoplastic insulated and rubber or the rmoplastic covered flat cables of rated voltage (400 v)	IQS:2200/ 2002
Petroleum & Petrochemical	Standard Test Method for Density, Relative Density, and API Gravity of Crude Oils by Digital Density Analyzer	Crude Oil	ASTM D5002
Petroleum & Petrochemical	Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)	Crude Oil	ASTM D4007
Petroleum & Petrochemical	Density, relative density, or API gravity of crude petroleum and liquid petroleum products by hydrometer method	Crude Oil	ASTM D1298
Petroleum & Petrochemical	Standard test method for water in crude oil by distillation	Crude Oil	ASTM D4006
Petroleum & Petrochemical	Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry	Crude Oils	ASTM D4294
Petroleum & Petrochemical	Vapor Pressure of Petroleum Products (Reid Method)	Crude Oils	ASTM D323
Petroleum & Petrochemical	Flash point	Gasoil and Oil	ASTM D 7094, ASTM D92

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Petroleum & Petrochemical	Pour point and cloud point	Gasoil and Oil	ASTM D 97
Petroleum & Petrochemical	Freezing point	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.) and oil	ASTM D97
Petroleum & Petrochemical	Density	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.) and oil	ASTM D4052 (Densometer)
Petroleum & Petrochemical	Distillation	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.)	ASTM D86
Petroleum & Petrochemical	Determination of Biodiesel (Fatty Acid Methyl Ester) and Triglyceride Content in Diesel Fuel Oil Using Mid-Infrared Spectroscopy	Gasoil and gasoline	ASTM D7806
Petroleum & Petrochemical	Viscosity	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.) and oil	ASTM D445
Petroleum & Petrochemical	Sulfur content	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.) and oil	ASTM D2622
Petroleum & Petrochemical	Heavy metals and trace elements	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc.) and oil	ASTM D8064 (XRF)
Petroleum & Petrochemical	Vapor pressure	Gasoline	ASTM D5191
Petroleum & Petrochemical	Octane number	Gasoline	ASTM D 5845

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Petroleum & Petrochemical	Benzene content	Gasoline	ASTM D 6277
Petroleum & Petrochemical	Olefin content	Gasoline	ASTM D 4052
Petroleum & Petrochemical	Aromatic content	Gasoline	ASTM D 4052
Petroleum & Petrochemical	Oxygen & oxygenate content	Gasoline	ASTM D 4052
Electrical	- Determination of Voltage, - Capacity - Density	Batteries	IEC 60095-1: 2018
Agricultural	Seed germination and viability	Cereal, seed and grains	Bio-protocol/e 884
Mechanical & Physical	Visual basic	Wooden sticks used for ice cream	IQS 702
Mechanical & Physical	Thickness and moisture content	Plywood specification for construction of panels and characteristics of plies	IQS 1637/1991
Mechanical & Physical	Moisture content	Plywood specification for tolerances on the dimensions	IQS 1638/1991
Mechanical & Physical	- Thickness - Offer - High	School furniture class room chairs and for use in secondary	IQS:1779/1992
Mechanical & Physical	- Thickness - offer - High	School furniture classroom chairs and tables for use in primary schools	IQS:1781/1993