

شهادة اعتماد

رقم TL 028



يقر نظام الاعتماد العراقي بأن:

مختبرات شركة المماس للفحص الهندسي والتصاميم والاستشارات الهندسية
والبيئية والتطوير والتدريب ودراسة الجدوى الفنية محدودة المسؤولية

العراق - البصرة - كوت الحجاج

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

في مجال:

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

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 ٢٠٢٤/١/٨ الى ٢٠٢٦/١/٧

تاريخ منح الاعتماد لأول مرة

٢٠١٨/٩/٢

تفني

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

د. محمد لطيف أحمد

مدير عام الهيئة العراقية للاعتماد

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 028



Iraqi Accreditation System Certify that:

**Laboratories of Al-Mamaas Company for Engineering Test,
Designs, Engineering and Environmental Consultancy,
Training and Development, Technical Feasibility Study Ltd**
Iraq – Basra- Kut Al Hijaj

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
- Chemical Materials Testing
- Polymers Materials Testing
- Rubber 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 8/1/2024 To 7/1/2026

Initial accreditation date

2/9/2018

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
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Testing Field	Type of Test	Test Object or Product	Reference to Standardized Method
Physical	Determination of compressive strength	Concrete cube	BS EN 12390-3:2009
Physical	Determination of compressive strength	Concrete cube	Iraqi Guide No. 348:2017
Chemical	Chloride content of hardened concrete (CI) by weight	Concrete cube	BS. 1881-124:2015
Chemical	Sulphate Content of hardened concrete (SO ₃)	Concrete cube	BS. 1881-124:2015
Physical	Bulk specific gravity and density of non-absorptive compacted asphalt mixtures	Asphalt	ASTM D2726 D2726M – 19
Physical	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures	Asphalt	ASTM D 6927 – 15
Physical	Sieve analysis for hot mix asphalt	Asphalt	ASTM D 5444:2015
Physical	Surface regularity of pavement	Asphalt	SORB R9
Physical	Standard Test Method for Determining the Flexural Creep Stiffness Using the Bending Beam Rheometer	Asphalt binder	ASTM D6648
Physical	Standard Test Method for Determining the Rheological Properties Using a Dynamic Shear Rheometer	Asphalt binder	AASHTO TP5
Physical	Determination of water (Moisture) content by mass	Aggregate	ASTM D2216 – 19

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Physical	Determination of water (Moisture) content by microwave oven heating	Aggregate	ASTM D4643 – 17
Physical	Determine specific gravity and water absorption rate of cross aggregate and fine aggregate	Aggregate	IQS: 31/1981
Physical	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Aggregate	ASTM C131
Chemical	Determination of SO ₃ content	Aggregate	BS EN 1744-1:2009+A1:2012
Chemical	Determination of Cl content	Aggregate	BS EN 1744-1:2009+A1:2012
Physical	Sieve analysis	Fine aggregate	ASTMC136-19
Physical	Sieve analysis	Coarse aggregate	ASTM C117-17
Physical	Density and unit weight of soil in place by sand-cone method	Sub Base	ASTM D1556-15e1
Physical	Determination of laboratory compaction characteristics using modified effort (2,700 KN-m/m ³)	Soil	ASTM D1557-12e1
Physical	Density in place by the drive-cylinder method	Soil	ASTM D2937-17e2
Physical	Soil investigation Thin- walled tube sampling of soil for geotechnical purposes	Soil	ASTM D1587:2012
Physical	Soil investigation Determining sub surface liquid level in a borehole or monitoring	Soil	ASTM D4750
Physical	Soil investigation	Soil	ASTM D2217

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	Wet preparation of soil samples for particle size analysis and determination of soil constants		
Physical	Soil investigation Soil exploration and sampling by auger boring	Soil	ASTM D1452
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
Physical	Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method	Soil	ASTM D2937-10
Physical	Liquid limit, plastic limit and plasticity index	Soil	ASTM D4318
Physical	Cone penetration test	Soil	ASTM D 5778
Physical	Soil resistivity test	Soil	ASTM G57
Physical	Plate load test	Soil	ASTM D1195
Physical	Standard test for mechanical cone penetration test of soil	Soil	ASTM D3441
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



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Physical	Standard test method for repetitive static plate	Soil	ASTM D1195 ASTM D1196
Mechanical	Determination of external loading characteristics	GRP pipe	ASTM D2412
Physical	Determination of wall thickness	GRP pipe	ASTM D3517 ASTM D3567
Physical	Determination of diameter	GRP pipe	ASTM D3517 ASTM D3567
Mechanical	Determination of compressive strength	Clay brick	IQS: 24 IQS:25
Physical	Determination of Absorption	Clay brick	IQS: 24 IQS:25
Physical	Determination of Dimension	Clay brick	IQS: 24 IQS:25
Physical	Determination of efflorescence	Clay brick	IQS: 24 IQS:25
Mechanical	Determination of modulus of rupture	Concrete tile	IQS: 1043:1987
Physical	Determination of absorption	Concrete tile	IQS: 1043:1987
Mechanical	Determination of modulus of rupture	Concrete flags	IQS: 1107:1988
Physical	Determination of Absorption	Concrete flags	IQS: 1107:1988
Physical	Determination of Penetration	Bituminous	ASTM D5:2013
Physical	Determination of Ductility	Bituminous	ASTM D113:2007
Physical	Determination of Softening	Bituminous	ASTM D36:2014
Physical	Saybolt Viscosity	Bituminous	ASTM D88
Physical	Determination of flash point	Bituminous	IQS: 134/1987
Physical	Determination of loss in heating	Bituminous	ASTM D1754

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Physical	Sampling compacted bituminous mixtures	Bituminous mixtures	ASTM D5361
Physical	Density	Bituminous felt (water proof)	IQS: 4/1988
Physical	firefighting	Bituminous felt (water proof)	IQS: 4/1988
Physical	heating loss	Bituminous felt (water proof)	IQS: 4/1988
Mechanical	Determination of Compressive strength	Cement	Iraqi guide: 198:1990
Physical	Determination Setting time (initial & final)	Cement	Iraqi guide: 198:1990
Physical	Determination of Consistency	Cement	Iraqi guide: 198:1990
Chemical	Determination of Sulphate	Concrete	IQS 448:1994
Chemical	Measurement of Solids Content	Mixing water in ready mixed concrete	ASTM C1603:2016
Chemical	Determination of pH	Mixing water in reading mixed concrete	ASTM C1603 : 2016
Mechanical	Determination of compressive strength	Inter locking paver block	IQS: 1606/2006
Physical	Determination of Absorption	Inter locking paver block	IQS: 1606/2006
Physical	Determination of Dimensions	Inter locking paver block	IQS: 1606/2006
Physical	Determination of Density	Inter locking paver block	IQS: 1606/2006
Physical	Determination of abrasion	Inter locking paver block	IQS: 1606/2006

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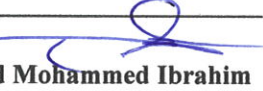
Physical	Standard test method for compressive strength of cylindrical concrete specimens	Concrete cylinder	ASTM C39
Mechanical	Determination of compressive strength	Block	ASTM C140/C140M-15
Physical	Determination of absorption	Block	ASTM C140/C140M-15
Mechanical	Determination of modulus of rupture	Curbstone	IQS: 1106/1987
Physical	Determination of absorption	Curbstone	IQS: 1106 /1987
Mechanical	Determination of modulus of rupture	Thermstone	IQS: 1441/2000
Physical	Determination of absorption	Thermstone	IQS: 1441/2000
Examination of Non-destructive test	Ultrasonic test compressive strength	Concrete	ASTM C597
Examination of Non-destructive test	Schmidt hammer test compressive strength	Concrete	ASTM C805
Physical	Concrete core compressive strength	Concrete	ASTM C42
Physical	Stand test method for slump of hydraulic- cement concrete	Concrete	ASTM C143
Physical	Standard test method for deep foundation element under static axial compressive load	Pile	ASTM D1143

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Physical	Standard test methods for deep foundation elements under static axial tensile load	Pile	ASTM D3689
Mechanical	standard test method for High-strain Dynamic testing of Deep Foundations	Piles	ASTM D4945
Mechanical	Standard test method for low-strain impact integrity testing of deep foundations	Pile	ASTM D5882
Mechanical	Standard test methods for deep foundation elements under static lateral load	Piles	ASTM D3966
Mechanical	Determination of ultimate tensile strength	Steel reinforcing bars	ASTM A370 ASTM A615
Mechanical	Determination of yield strength	Steel reinforcing bars	ASTM A370 ASTM A615
Mechanical	Determination of elongation	Steel reinforcing bars	ASTM A370 ASTM A615
Mechanical	Galvanized	Steel reinforcing bars	ASTM A123
Chemical	Standard test methods and practices for chemical analysis of steel products	Steel reinforcing bars	ASTM A751:2021
Mechanical	Determination of ultimate tensile strength	Plate	ASTM a36
Mechanical	Determination of elongation	Plate	ASTM a36
Chemical	Standard Test Methods and Practices for Chemical Analysis of Steel Products	Plate	ASTM a36

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Mechanical	Determination of ultimate tensile strength	Anchor bolt	ASTM F1554-04
Mechanical	Determination of elongation	Anchor bolt	ASTM F1554-04
Non-Destructive	Magnetic particle test	Piping pipeline structures	ASME B31.1 API 1104 AWS D1.1
Non-Destructive	Ultrasonic test	Piping Pipeline structures	ASME B31.1 API 1104 AWS D1.1
Non-Destructive	Radiographic test	Piping Pipeline structures	ASME B31.1 API 1104 AWS D1.1
Non-Destructive	Penetrant Test	Piping Pipeline structures	ASME B31.1 API 1104 AWS D1.1
Physical	Hardness test	Pipe	ASTM D2240, ASTM D785
Mechanical	Determination of external loading characteristics	Plastic pipe	ASTM D2412
Physical	Determination of wall thickness	Plastic pipe and fitting	ASTM D2412 ASTM D2122
Physical	Determination of diameter	Plastic pipe and fitting	ASTM D2412 ASTM D2122
Physical	Standard specification for type III polymer modified asphalt cement for use in pavement construction	Polymer	ASTM D5841
Chemical	Standard Practices for Identification of Crystalline Compounds in Water-Formed Deposits By X-Ray Diffraction	Epoxy	ASTM D934

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Physical	Test of expansion joint	Bridge expansion joint test	ASTM D4014
Physical	Test of rubber bade	Bridge rubber bade	ASTM D4014 ASTM D412 ASTM D395 ASTM D2240 ASTM D1149
Electrical Physical	Determination of Dimensions	Tubular Steel Poles (ST-52)	Ministry of Electricity/Technical Specification D22-2019 & DIN-17100
Electrical Physical	Determination of Dimensions	Lattice Steel Poles (ST-52)	Ministry of Electricity/Technical Specification D46-2012 & DIN-17100
Electrical Physical	Determination of Diameter of Conductor	Electrical Cable Test with Cross Sectional Area (0.5-630) mm ² & Electrical Resistance (0.0238-36) Ω/Km	IEC 60502-1:2004 IEC 60502-2:2005 Ministry of Electricity/Technical Specification: D03:13 & D04:13
	Determination of Cross Sectional Area		
	Determination of Insulator thickness		
	Determination of Number of Cores		
	Determination of Stranding		
	Determination of Copper Screen area		
	Determination of Sheath Thickness		

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	Determination of Filler type		
	Determination of Armour type		
	Determination of Armour Thickness		
	Determination of Color of Outer Sheath		
	Determination of Water prove		
	Determination of Electrical Resistance		
Electrical Physical	Determination of Diameter of One Wire	Wire	IEC 60228:2004 MOE(D47:17)
	Determination of Cross-Sectional area		
	Determination of Stranding		
	Determination of Electrical Resistance		
Physical	Hydrostatic test	HDPE Pipe	ISO 1167-1,2
	Determination of wall thickness		
	Determination of diameter		