وزارة التخطيط الهيأة العراقية للاعتماد IQAS

شهادة اعتماد

رقم TL 017



يقر نظام الاعتماد العراقي بأن: محتبر سبارك للفحوصات الهندسية العراق – البصرة – الخليلية - مقابل مركز ابتسامه البصرة

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

عي 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 لايتجزء منها يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني https://iqas.mop.gov.iq

يكون الاعتماد نافذا من 2025/5/12 الى 2026/1/7 تاريخ منح الاعتماد لاول مرة 2017/11/29

أ.د. محمد علي تميم نانب رنيس مجلس الوزراء وزير التخطيط

المهندس عبد الواحد محمد ابراهيم مدير عام الهيأة/ وكالة Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 017



Iraqi Accreditation System Certify that:

Spark Laboratory for Engineering Testing

Iraq - Basra- Al-Khaliliya- opposite of Basra smile center

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 12/5/2025 To 7/1/2026
Initial accreditation date
29/11/2017

Eng. Abdul Wahid Mohammed Ibrahim
Director General of IQAS

Wahammad Mahammad

Dr. Mohammed Ali Tamim Deputy Prime Minister Minister of Planning



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Signature:

Signature:
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Ibrahim
Director General of IQAS

Organization name:
Spark Laboratory for Engineering
Testing

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Testing	Type of test	Test object or	Reference to standardized
field		product	method
Physical	Consolidation Test	Soil test	ASTM D 2435-11
Physical	Direct Shear Test	Soil test	ASTM DASTM D080-11
Mechanical	Determination of compressive strength	Concrete cube	Iraq Guide No. 348-2017
Mechanical	Determination of compressive strength	Concrete	BS EN 12390-3:2009
Mechanical	Determination of density	Concrete	Iraq Guide No.274-1992
Physical	Determination of density	Concrete	BS EN 12390-7:2009
Mechanical	Determination of compressive strength	Clay building brick	IQS 24/1988
Physical	Determination of sieve analysis	Coarse aggregate (gravel)	ASTM 33/03
Physical	Gravel of finer than 0.075mm	Coarse aggregate (gravel)	ASTM 33/03
Physical	Determination of grading sieve	Fine aggregate (sand)	ASTM 33/03
Physical	Gravel of finer than 0.075mm	Fine aggregate (sand)	ASTM 33/03
Physical	Determination of setting time	Cement	ASTM C191
Physical	Determination of type and shape	Concrete masonry units	ASTM C140
Physical	Determination of concrete masonry dimensions	Concrete masonry units	ASTM C140
Physical	Determination of water absorption	Concrete masonry units	ASTM C140
Physical	Bulk specific gravity	Asphalt	ASTM D2726/M
Physical	Marshal stability and flow of asphalt mixture	Soil	ASTM D6927-15
Physical	Lab. Compaction using Modify effort (2,700 KN m/m³)	Concrete masonry units	ASTM D1557-12
Physical	Density in place by the drive- cylinder	Soil	ASTM D2937-17

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	method	Sub base	
Physical	Density and unit weight of soil in place	Soil	ASTM D1556-15
Filysical	By sand cone	Sub base	ASTM D1350-13
T) 1	Determination of SO ₃ Content	Coarse aggregate	Iraq Guide 500/2011
Physical	Determination of SO3 Content	(gravel)	Trad Guide 300/2011
Physical	Determination of SO ₃ Content	Fine aggregate	Iraq Guide 500/2011
1 Hysicai	Determination of 503 Content	(sand)	may Guide 300/2011
Mechanical	Determination of tensile strength	Reinforcing steel bar	ASTM A370:2021
Mechanical	Determination of tensile strength	Keinforeing steel bai	ASTM A615:2020
Mechanical	Determination of yield strength	Reinforcing steel bar	ASTM A370:2021
Mechanical	Determination of yield strength		ASTM A615:2020
Mechanical	Determination of elongation	Reinforcing steel bar	ASTM A370:2021
			ASTM A615:2020
Non	UT	Welding	ASMI V. Article 4 & 5
Destruction			
Tests			
(NDT)			
Non	PT	Welding	ASMI V. Article 6
Destruction	5		
Tests			
(NDT)			
Physical	Standard specification for	Polymerized bitumen	ASTM D6373
	performance-graded asphalt binder		
Physical	Determination of the melt mass-	Plastic	ISO 1133-1
	flow rate (MFR) and melt volume f		
	low rate (MVR) of thermoplastics		
Physical	Standard test method for melt flow	Plastic	ASTM D1238
	rates of thermoplastics by extrusion		
	plastometer		
Electrical	Electrical conductivity	Cable	EC 60502-1

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DSR	Polymerized Bitumen	ASTM D6373
PAUT	Welding defects	ASME B31.1
		ASME B31.3
		ASME BPVC
VT	Welding defects	ASME B31.1
		ASME B31.3
		ASME BPVC
MT	Piping pipeline	ASME B31.1
	structures	API 1104
		AWS D1.1
RT	Piping pipeline	ASME B31.1
	structures	API 1104
		AWS D1.1
Hardness test	Pipe	ASTM D2240,
		ASTM D785
Chloride Content of hardened	Concrete cube	BS. 1881-124:2015
concrete (CI)		
Sulphate Content of hardened	Concrete cube	BS. 1881-124:2015
concrete (SO ₃)		
Sieve analysis for hot mix asphalt	Asphalt	ASTM D 5444:2015
Surface regularity of pavement	Asphalt	SORB R9
Standard Test Mothed for	Asphalt binder	ASTM D6648
Determining the Flexural Creep	_	SORB-R9
Stiffness Using the Bending Beam		
Rheometer		
Standard Test Mothed for	Asphalt binder	AASHTO TP5
Determining the Rheological		
Properties Using a Dynamic		
Determining of water (Moisture)	Aggregate	ASTM D4643-17
, , ,	00 0	
	Aggregate	IQS: 31/1981
		ASTM C128
aggregate and fine aggregate		ASTM C127
	PAUT VT MT RT Hardness test Chloride Content of hardened concrete (Cl) Sulphate Content of hardened concrete (SO ₃) Sieve analysis for hot mix asphalt Surface regularity of pavement Standard Test Mothed for Determining the Flexural Creep Stiffness Using the Bending Beam Rheometer Standard Test Mothed for Determining the Rheological Properties Using a Dynamic Determining of water (Moisture) content by microwave oven heating Determining specific gravity and water absorption rate of cross	PAUT Welding defects Welding defects Welding defects Welding defects Welding defects Piping pipeline structures Piping pipeline structures Pipe Chloride Content of hardened concrete (Cl) Sulphate Content of hardened concrete (SO ₃) Sieve analysis for hot mix asphalt Surface regularity of pavement Standard Test Mothed for Determining the Flexural Creep Stiffness Using the Bending Beam Rheometer Standard Test Mothed for Determining the Rheological Properties Using a Dynamic Determining of water (Moisture) content by microwave oven heating Determining specific gravity and water absorption rate of cross

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Physical	Standard test mothed for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	Aggregate	ASTM C131
Chemical	Determining of SO ₃ content	Aggregate	BSEN 1744-1:2009+ A1:2012 BS EN 1377-3
Chemical	Determining of Cl content	Aggregate	BSEN 1744-1:2009+ A1:2012 BS EN 1377-3
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 Wet preparation of soil samples for particle size analysis and determination of soil constants	Soil	ASTM D2217
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 of site	Soil	ASTM D1556, D2937
Mechanical	Soil investigation Standard penetration test (SPT) and spilt –barrel sampling	Soil	ASTM D1586
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

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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	Soil	ASTM D1883
	California bearing ration		ASTM D4429
Physical	Standard test method for maximum	Soil	ASTM D4253
	index density and unit weight using a vibratory table		ASTM D4254
Physical	Standard test method for repetitive	Soil	ASTM D1195
	static plate		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
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
Physical	Determination of modulus of	Concrete tile	IQS: 1043:1987
	rupture		IQS: 1107:1988
Physical	Determination of absorption	Concrete tile	IQS: 1043:1987
			IQS: 1107:1988
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,
•			AASHTO T53
Physical	Say bolt Viscosity	Bituminous	ASTM D88

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Physical	Determination of flash point	Bituminous	IQS: 134/ 1987, AASSHTO T48
Physical	Determination of loss in heating	Bituminous	ASTM D1754
Physical	Sampling compacted bituminous mixtures	Bituminous mixtures	ASTM D5361, SORB/R9
Physical	Density	Bituminous felt (water proof)	IQS: 4/1988, SORB/R9
Physical	Fire fighting	Bituminous felt (water proof)	IQS: 4/1988, SORB/R9
Physical	Heating loss	Bituminous felt (water proof)	IQS: 4/1988, SORB/R9
Mechanical	Determination of Compressive strength	Cement	Iraqi guide: 198: 1990 ASTM C150
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 ready mixed concrete	ASTM C1603:2016, ISO 4316
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
Physical	Standard test method for compressive strength of cylindrical concrete specimens	Concrete cylinder	ASTM C39

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Mechanical	Determination of compressive strength	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
Mechanical	Ultrasonic test compressive strength	Concrete	ASTM C597
Mechanical	Schmidt hammer test compressive strength	Concrete	ASTM C805
Physical	Concrete core compressive strength	Concrete	ASTM C42
Physical	Standard 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
Physical	Standard test method for deep foundation element under static axial tensile load	Pile	ASTM D3689
Mechanical	Standard test method for High- strain Dynamic testing of deep foundation	Pile	ASTM D4945
Mechanical	Standard test method for low-strain impact integrity testing of deep foundation	Pile	ASTM D5882
Mechanical	Standard test method for deep foundation element under static lateral load	Pile	ASTM D3966
Mechanical	Galvanized	Steel reinforcing bars	ASTM A123
Chemical	Standard test method and practices for chemical analysis of steel	Steel reinforcing bars	ASTM A751: 2021

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	products		
Mechanical	Determination of ultimate tensile strength	Plate	ASTM a36, A123
Mechanical	Determination of elongation	Plate	ASTM a36, A123
Chemical	Standard test method and Practices for Chemical Analysis of steel products	Plate	ASTM a36, A123
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	Radiographic 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
Chemical	Standard Practices for Identification of Crystalline Compounds in Water Formed Deposits by X-Ray Diffraction	Epoxy	ASTM D934
Physical	Test of expansion joint	Bridge expansion joint	ASTM D4014
Mechanical	Test of rubber bade	Bridge rubber bade	ASTM D4014, ASTM D412, ASTM D395, ASTM

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			D2240,
			ASTM D1149
Physical	Determination of Dimensions	Tubular Steel Poles (ST-52)	Ministry of Electricity / Technical Specification D22- 2019 & DIN-17100
Physical	Determination of Dimensions	Lattice Steel Poles (ST-52)	Ministry of Electricity / Technical Specification D46- 2012 & DIN-17100
Electrical	Determination of Diameter of Conductor 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 Determination of Filler type Determination of Armour type Determination of Armour Thickness Determination of Color of Outer Sheath Determination of Water prove	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



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	Determination of electrical resistance		
Electrical	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		
Mechanical &	Hydrostatic test	HDPE Pipe	ISO 1167-1,2
physical	Determination of wall thickness		
	Determination of diameter		