وزارة التخطيط
الهيأة العراقية للاعتماد
IQAS

شـــهـادة اعتـــمـاد

رقم TL 077

يقر نظام الاعتماد العراقي بأن:

مختبر المكتب الاستشاري الهندسي/ كلية الهندسة الجامعة المستنصرية

العراق- بغداد- باب المعظم

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

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية

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 ٢٠٢٤/٦/٤ الى ٢٠٢٦/٦/٣
تاريخ منح الاعتماد لاول مرة
٢٠٢٢/٥/٣١

د. محمد لطيف أحمد
مدير عام الهيأة العراقية للاعتماد

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

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 077

Iraqi Accreditation System Certify that:

Engineering Consultancy Bureau Laboratory
College of Engineering /Mustansiriyah University

Iraq –Baghdad- Bab Al-Mudham

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**

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 4/6/2024 To 3/6/2026
Initial accreditation date
31/5/2022

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**
Organization address: **Iraq –Baghdad- Bab Al-Mudham**	**Organization name :** **Engineering Consultancy Bureau Laboratory/ College of Engineering Mustansiriyah University**	**Accreditation no.:** **TL 077**
Signature: **Abdul Wahid Mohammed Ibrahim** **Deputy General Manager**	**Accreditation is valid:** **From 4/6/2024 To 3/6/2026**	**Issue no. :** **003**

Testing field	Type of test	Test object or product	Reference to standardized method
Mechanical	Determination of compressive strength	Concrete cubes	Iraqi guide no. 348:2017 BS EN 12390-3:2009
Physical	Determination of density	Concrete cubes	Iraqi guide no. 247:1992
Mechanical	Determination of modulus rapture and breaking strength	Pre – cast concrete tiles	IQS 1107:1992
Mechanical	Determination of modulus rapture and breaking strength	Ceramic tiles	Iraqi technical requirement NO.8 EN ISO 10545 PART 4
Mechanical	Determination of stability and flow	Asphalt mixtures	ASTM D6927-15
Mechanical	Preparation of asphalt mixture specimens using marshal apparatuses	Asphalt mixtures	ASTM D6926-20
Physical	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort	Subbase	ASTM D1557-12
Physical	Determination of sieve analysis	Subbase	ASTM D1241
Physical	Determination of density	Subbase	ASTM D1556-15
Physical and Mechanical	Determination of Atterberg limit (liquid , plastic limit and plasticity index)	Subbase	ASTM D 4318-17
Physical	Determination of lab density	Soil materials	ASTM D7263
Physical	Determination of field density	Soil materials	ASTM D 2937 – 00
Physical and Mechanical	Determination limit (liquid , plastic limit and plasticity index)	Soil materials	ASTM D 4318 – 17
Physical and Mechanical	Determination of elongation	Carbon structural steel	ASTM A370 ASTM A36 ASTM A529
	Determination of tensile strength		
	Determination yield strength		
	Determination of dimensions		
Physical and Mechanical	Determination of elongation	Steel reinforcing bars	ASTM A370 ASTM A615M
	Determination of tensile strength		
	Determination yield strength		
	Determination bending		
	Deformation requirements		

	Determination of weight		
	Determination of dimensions		
Physical and Mechanical	**Determination of tensile strength**	**Carbon-steel wire and welded wire reinforcement**	**ASTM A370 ASTM A1064**
	Determination yield strength		
	Determination bending		
	Deformation requirements		
	Determination of weight		
	Determination of dimensions		
	Spacing		
Chemical	**Zinc Coating Thickness**	**Zinc (hot-dip galvanized) coatings on iron and steel products**	**ASTM A90 ASTM A123**
Mechanical and Physical Testing	**Determination of Thickness**	**Pipe, steel, black and hot dipped, zinc-coated, welded and seamless**	**ASTM A370 ASTM A53 ASTM A106**
	Determination of Elongation		
	Determination of Tensile strength		
	Determination Yield strength		
	Determination of Dimensions		
Mechanical and Physical	**Determination of Elongation**	**Ductile iron pipes, fittings, accessories and their joints for water applications**	**ISO 2531**
	Determination of Tensile strength		
	Determination Yield strength		
	Determination of Dimensions		
	Iron Wall Thickness		
	Cement Mortar Lining Thickness		
	Surface Condition		
	Pipe Coating		
Mechanical and Physical Testing	**Determination of form Supplied and Surface Quality**	**Unplasticized polyvinyl chloride (PVC-U) pipes**	**DIN 8061 DIN 8062**
	Dimensions, Tolerances and out-of Roundness		
	Long-Term Hydrostatic Pressure		
	Determination of Weight		
	Impact Strength		

	Heat Reversion		
Mechanical and Physical Testing	**Determination of form Supplied and Surface Quality**	**Polypropylene (pp) pipes**	**DIN 8077** **DIN 8078**
	Dimensions, Tolerances and out-of Roundness		
	Long-Term Hydrostatic Pressure		
	Determination of Weight		
	Heat Reversion		
Chemical and Physical	**Determination of Compressive Strength**	**Cement**	**I.G.O 198** **I.Q.S No. 5**
	Determination of Setting Time		
	Determination of SiO_2 contents		**I.G.O 472** **I.Q.S No. 5**
	Determination of CaO contents		
	Determination of MgO contents		
	Determination of Fe_2O_3 content		
	Determination of Al_2O_3 content		
	Determination of Loss of Ignition		
	Determination of Insoluble Residue		
	Determination SO_3 contents		
Mechanical and Physical Testing	**Determination of Compressive Strength**	**Concrete interlocking paving units**	**ASTM C140** **I.Q.S No. 1606**
	Determination of Absorption		
	Determination of Dimensions		
Physical Testing	**Determination of compressive strength**	**Gypsum**	**I.Q.S NO.28:1988**
	Determination of modulus rapture and breaking strength		
	Determination of hardness		
	Determination of Setting time		
	Determination of Smoothness		
Mechanical and Physical Testing	**Determination of Compressive Strength**	**Clay building bricks**	**I.Q.S 24** **I.Q.S 25**
	Determination of Absorption		
	Determination of Dimensions		
	Determination of General Mechanical Appearance and Shape		
	Determination of Leveling of Surface		
	Determination of Dimensions		

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	Determination of Water Absorption		
	Determination of Efflorescence		
Mechanical and Physical	**Determination of Compressive Strength**	**Concrete cube**	**I.G.O 348**
	Determination of Density		**I.G.O 274**
Mechanical and Physical	**Determination of compressive strength**	**Concrete core**	**Iraqi guide no.1:1987**
	Determination of density		**Iraqi guide no. 247:1992**
Mechanical and Physical	**Determination of Dimensions**	**Concrete masonry units**	**I.Q.S 32** **ASTM C140**
	Determination of Absorption		
	Determination of Compressive Strength		
Mechanical and Physical	**Determination of Flexural**	**Terrazzo tiles**	**I.Q.S 1042**
	Determination of Dimensions		
	Determination of Absorption		
	Determination of Appearance		
	Determination of Wear		
Mechanical and Physical	**Determination of Flexural**	**Precast concrete flags**	**I.Q.S 1107** **I.G.O 995**
	Determination of Dimensions		
	Determination of Absorption		
	Determination face leveling		
Mechanical and Physical	**Determination of Bending**	**Concrete kurb units**	**ISO 1340** **I.Q.S 5164**
	Determination of Dimensions		
	Determination of Absorption		
	Determination of Texture		
Mechanical and Physical	**Determination of Dimensions**	**Nonloadbearing concrete masonry units**	**I.Q.S 5190**
	Determination of Absorption		
	Determination of Compressive Strength		
	Determination of Finish and Appearance		
Mechanical and Physical	**Determination of dimensions and anical surface quality**	**Ceramic tiles**	**ISO 13006** **ISO 10545-2**
	Determination of Modulus of Rupture and Breaking Strength		**ISO 13006** **ISO 10545-4**
Physical and Chemical	**Determination of Grading (Sieve Analysis)**	**Coarse aggregate (gravel)**	**I.Q.S 45**
	Determination of Finer Than 0.075mm		
	Determination SO_3 contents		**I.G.O 500/3**
Physical and	**Determination of Grading (Sieve Analysis)**	**Fine aggregate**	**I.Q.S 45**

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Chemical	**Determination of Finer Than 0.075mm**	**(sand)**	
	Determination SO_3 contents		**I.G.O 500/3**
Physical and Chemical	**Standard test method for Marshall stability and flow and air void and bulk density**	**Asphalt concrete**	**ASTM D6927**
	Quantitative Extraction of Asphalt Binder from Asphalt Mixtures		**ASTM D2172**
	Determination of Compaction and Thickness		**ASTM D3549**
	Standard test Method for Asphalt Content of Asphalt Mixture and Sieve Analysis		**ASTM D6307** **ASTM D136**
Physical and Mechanical	**Determination of breaking strength**	**Bituminous sheet material**	**ASTM D5147**
	Determination of pliability		
	Determination of thickness		
	Determination of Loss on Heating		**ASTM D146**
Physical and Mechanical Testing	**Cone Penetration**	**Sealants and fillers, hot and cold- applied for joints and cracks**	**ASTM D5329** **I.Q.S 1110** **I.Q.S 1136**
	Flow		
	Bond		
Physical and Mechanical Testing	**Weight per Litter**	**Emulsified asphalt**	**ASTM D1227** **I.Q.S 1173**
	Residue by Evaporation		
	Ash Content of Residue		
	Water Content		
	Flammability		
	Heat Test		
	Flexibility		
Physical and Mechanical Testing	**Kinematic Viscosity**	**Cutback asphalt**	**ASTM D2027** **ASTMD2028** **AASHTO M 81** **AASHTO M 82**
	Flash Point		
	Residue from Distillation to 360°C		
	Water %		
	Residue Solubility in Trichloroethylene		
	Tests on residue: **Viscosity at 60°C** **Ductility at 25°C**		
Physical and	**Penetration Test**	**Asphalt used in roofing**	**ASTM D36**
	Ductility		**ASTM D92**

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Chemical Testing	**Flash Point**		**ASTM D113**
	Softening Point		**I.Q.S 1196**
	Solubility in Trichloroethvlene		**ASTM D5**
	Determination of grading (sieve analysis)	**Sub base**	**ASTM C136**
	Determination of maximum dry density		**ASTM D1557**
	Determination of California bearing ratio		**ASTM D1883**
	Determination of density and unit weight of soil in place		**ASTM D2167** **ASTM D1556**
	Testing determination of so_3 contents		**B.S 1377-3**
	Determination of T.S.S contents		**Earth manual E8**
Physical , and Mechanical	**Determination of density of soil in place by the drive-cylinder method**	**Soil**	**ASTM D2937**
	Determination of maximum dry density		**ASTM D698** **ASTM D1557**
	Determination of grading (sieve analysis)		**ASTM C136**
	Determination of Finer Than 0.075mm		**ASTM D1140**
	Determination of the liquid limit, plastic limit, and the plasticity index of soils		**ASTM D4318**
	Determination of California Bearing Ratio		**ASTM D1883**
Chemical	**Determination of SO_3 contents**		**B.S 1377-3**
Physical and Chemical	**Determination of TSS, CI, SO_3, and Organic content for soil PH, CI, SO_4, and TDS for water**	**Soil investigation**	**B.S 1377** **Earth manual E8**
	Determination of Atterberg Limits (liquid limit and plastics limit)		**ASTM D 4318**
	Determination of Direct Shear		**ASTM D 3080**
	Determination of Grain Size Analysis		**ASTM D 422**
	Determination of Weight		**B.S 1377**
	Neutral Water Content		**ASTM D 2216**
	Field Standard Penetration Test		**ASTM D 1586**
	Unconfined Compression Test		**ASTM D 2166**
	Specific Gravity		**ASTM D 854**
	Consolidation Test		**ASTM D 2435**
Physical	**PH**	**Aluminum**	**HG 2225-2010**

and Chemical	Melting point	sulfate powder	CDC 6 (960) DTZS (BS EN 878: 2016)
	Density		
	Water solubility		
	Appearance		
Chemical	AL_2O_3		
	FE_2O_3		
	Water insoluble matter		
	Pb		
	Particle Size		
Physical and Chemical	appearance	Chlorine powder	ISIRI 2361
	chlorine		
	Density, g/ml		
	Na_2CiO_3, %w/v		
	Na_2CiO_3		
	Fe		
	Co		
	Cu		
	Ni		
	Hg		
	As		
	Cd		
	Cr		
	Pb		
	Sb		
	Se		