

شهادة اعتماد

رقم 121 TL



يقر نظام الاعتماد العراقي بأن:
مختبرات كلية الهندسة/ جامعة واسط
العراق - واسط - الكوت - حي الربيع

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 البلاستيكية
 - 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 2025/5/21 الى 2027/5/20

تاريخ منح الاعتماد لأول مرة
2023/3/19

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


المهندس
عبد الواحد محمد ابراهيم
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 121



Iraqi Accreditation System Certify that:
**Laboratories of Engineering College/
Wasit University**

Iraq – Wasit – Kut - Al-Rabiea district

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

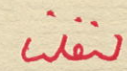
This accreditation is subject to with the above standard & IQAS requirements
The scope of accreditation is attached to the certificate & considered as part of it
The most recent issue of the accreditation scope is available on IQAS website

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

Accreditation is valid From 21/5/2025 To 20/5/2027

Initial accreditation date
19/3/2023


Eng. Abdul Wahid M. Ibrahim
Director General of IQAS


Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

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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 BS EN12390-3:2009
Physical	Determination of density	Concrete cube	Iraqi guide:274 BS EN12390-7:2009
Mechanical	Determination of tensile strength	Reinforcing steel bar	BS 4449:2009 ISO 6935 Part (1):2007 ISO 6935 Part (2):2019 ASTM A615 ASTM A370
Mechanical	Determination of yield strength	Reinforcing steel bar	BS 4449:2009 ISO 6935 Part (1):2007 ISO 6935 Part (2):2019 ASTM A615 ASTM A370
Mechanical	Determination of elongation	Reinforcing steel bar	BS 4449:2009 ISO 6935 Part (1):2007 ISO 6935 Part (2):2019 ASTM A615 ASTM A370
Physical	Temperature, dichloromethane, longitudinal reversion, Dimensions, appearance	Plastics piping systems for non-pressure underground drainage and sewerage unplasticized poly (vinyl chloride) (PVC-U)	IQS 5160-1/2022 ISO 5160-2/2022
Mechanical	Maximum laboratory density liquid limit field density- - (L.L) % - Plastic limit (P.L) Sieve analysis –% CBR	Subbase	General specifications of roads R6 2003 and bridges AASHTO(P180) AASHTO(T191) AASHTO (T238) AASHTO (T205) 9) T8(AASHTO AASHTO (T90) ASTM D1883

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			AASHTO (T27) Testing guide, no (9/A) 1989 Iraqi standards, no 1693, 1991 Testing guide, no 9/B, 1989
Chemical	Organic Sulfur salts – Gypsum –materials	Subbase	Testing method, no 9/G, 1989 AASHTO (T193)
Mechanical	Maximum laboratory density liquid limit field density - - (L.L) % - Plastic limit (P.L) % CBR	Earthworks	General specifications of roads 2003 R5 and bridges AASHTO(P180) AASHTO(T205) AASHTO(T191) 9) T8(AASHTO AASHTO (T90) AASHTO (T193) Testing guide, no 9/G, 1989 Testing guide, no (9/A) 1989 Testing guide, no (9/A) 1989 Testing guide, no (854) 1989
Chemical	Sulfur salts – Organic materials – Gypsum	Earthworks	Testing guide, no (895) 2003
Mechanical	fraction –Dimensions -water absorption -standards abrasion resistance –	Marble	Iraqi standards, no 1387, 1989 1 st modification 2018 Testing guide, no (65) 1989 Testing guide, no (65/1) 2017 Testing guide, no (965/3) 2016 Testing guide, no (65/4) 2017 Testing guide, no (65/2) 2017
Physical- Mechanical	Appearance – dimensions – compressive strength – total absorption - shrinkage	Autoclaved aerated concrete	Iraqi standards, no 1441, 2000 Testing guide, no (809) 2009 Testing guide, no (810) 2009
Physical- Mechanical	Maximum lab. Density – field density – water content – plasticity index – gradation – California bearing ratio	Subbase	General specifications of roads R6 2003 and bridges AASHTO(P180) AASHTO(T191) AASHTO (T238) AASHTO (T205)

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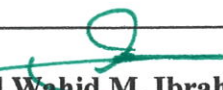
			9) T8(AASHTO AASHTO (T90) ASTM D1883 AASHTO (T27) Testing guide, no (9/A) 1989 Iraqi standards, no 1693, 1991 Testing guide, no 9/B, 1989
Physical-Mechanical - Chemical	Dimensions – appearance – water absorption – fracture – abrasion resistance – acid resistance	Acid-prof Ceramic	Iraqi standards, no 1627
Physical - Mechanical	Elongation - Tensile Strength Ozone resistance -Oil swell - temperature stiffening -Low Compression -	Water Stop	ASTM D5973 -97 (2017)
Mechanical	Determination penetration at (25c,100g,5sec)	bitumen	AASHTO (T49)
Mechanical	Determination of Ductility cm	bitumen	AASHTO (T51)
Physical	Determination Flash point °C	bitumen	AASHTO (T48)
Physical	Determination Viscosity at 135°C	bitumen	AASHTO (T201)
Physical	Determination Viscosity at 60°C	bitumen	AASHTO (T201)
Physical	Test on Residue from Thin-Film Oven Test (penetration and Ductility)	bitumen	ASTM D1754/2002, AASHTO T179/2005
Mechanical	Determination of Stability KN	asphalt	AASHTO-T245
Mechanical	Determination of Creep mm	asphalt	AASHTO-T245
Physical	Determination of Air Voids %	asphalt	ASTM-D2041
Physical	Determination of GM bulk	asphalt	ASTM-D2726
Physical	Determination of Sand equivalent	sand	AASHTO T176

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Physical	Crushing ratio	Crushed gravel	ASTM-D5821
Physical - Chemical	Kinematic viscosity to 60 °C (mm ² /sec) – Distillation by volume to 360 °C - distillation residue to 360 °C – tests on distillation residue – flash point – water content %	Tack coat	ASTM D2028/D2028M-15
Mechanical	Dimensions, Diameter, Thickness (Ultrasonic), Hardness, Tension, Penetration Test	Pressure Columns (Clamped)	Technical Specification for Electrical Work D-46
Mechanical	Dimensions, Diameter, Thickness (Ultrasonic), Hardness, Tension	Pressure Columns (rounded)	Technical Specification for Electrical Work D-22
Mechanical	Dimensions, Diameter, Thickness, Hardness	Lampposts	Technical Specification for Electrical Work D-13
Mechanical	Dimensions, Diameter, Thickness, Hardness	Decorative lighting poles	According to the manufacturer's specification
Mechanical	Dimensions, Diameter, Thickness, Hardness	Communication poles	Technical Specification for Electrical Work 402 S. B. I
Electrical	Determination of break down voltage	Transformer	IEC-60076-2-2011 IEC-60076-3-2013 IEC-60076-1-2011
Electrical	Determination of insulation, turn ratio, D.C-resistance	Transformer	IEC-60076-2-2011 IEC-60076-3-2013 IEC-60076-1-2011
Electrical	Cable test	Cable	IEC-60502-1
Electrical	Resistance, Diameter, Current, Insulation, Type of Material	electrical cables - low voltage	Technical Specification for Electrical Work D-04
Electrical	Resistance, Diameter, Current, Insulation, Type of Material, Capacitance, and Inductor	electrical cables - medium voltage	Technical Specification for Electrical Work D-03

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Electrical	Resistance, Diameter, Current, Insulation, Type of Material	Suspension cable	Technical Specification for Electrical Work D-30
Electrical	Resistance, Diameter, Current, Weight	High-Voltage and low voltage aluminum and copper wires	Technical Specification for Electrical Work D-47, D-45, D-23
Electrical	Power, Luminous, Resistor	Light cell	IEC 60947-5-2
Electrical	Windings Resistance, Insulation for primary and secondary windings, Voltage and turns ratio testing, Transformer Oil	Distribution Transformers	Technical Specification for Electrical Work D-26
Electrical	Spark Voltage for dry and wet insulator	Ceramic Insulators & Spacer Fuse + insulating discs	Technical Specification for Electrical Work D-24
Electrical	Capacitance, Disconnected Time, Instantaneous Disconnected, Type of Breaker	Circuit breakers low pressure and all capacities Motorize & molded case types	IEC- 62271 IEC 60947-2
Electrical	Power, Dimensions, Luminous	Lighting compositions	Technical Specification for Electrical Work D-10
Electrical	Resistance, Dimensions, Type of Materials	Ground check	Technical Specification for Electrical Work D-28
Electrical	Resistance, Diameter, Current, Insulation, Type of Material	single core medium and high voltage	Technical Specification for Electrical Work D-03
Electrical	Insulation, Resistance, Turn Ratio, MCCBs current test, SF6 tests	Kiosk	Technical Specification for Electrical Work D-06
Electrical	DC contact Resistance Insulations test	Insulator (SF6) high pressure	Technical Specification for Electrical Work D-25
Electrical	Resistance Insulations test	Low Voltage Distribution Box (PLR)	Technical Specification for Electrical Work D-29
Electrical	Resistance, Insulation tests	Main Ring Unit	Technical Specification for Electrical Work D-07 D-08+ D-

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Mechanical	Dimensions, Insulations, tension	Hook hook	Technical Specification for Electrical Work D-31
Mechanical	Dimensions, Insulations, tension	Pull hook	Technical Specification for Electrical Work D-31
Mechanical	Dimensions, Insulations, tension	Hanging hook	Technical Specification for Electrical Work D-31
Electrical	Resistance Dimensions	Earth Rod (copper)	7IEC 62561- IEC 62561-2 BS 7430
Electrical	Dimensions, tension	Stay Wire	IEC 60888
Electrical	Insulation, Resistance, Dimensions	Water pump	2IEC 60034
Electrical	Current, Voltage, Power Factor, Active Power, Apparent power, Motor Power, Loads, Muffler, Tank	Generators 0 - 500KVA	Technical Specification for Electrical Work D-34, D-35
Electrical	Resistance, Capacitance, Insulation Thickness, Diameter, Disconnected Location, Insulation, Signal Frequency, Signal Speed	Internet network operators	IEC 61156
Electrical	Resistance, Diameter, Inner protection type, Insulation Type, Insulation, Insulation Breakdown	Fire cables	IEC 60331
Electrical	Conductor Type, Resistance, Conductor Capacitance, Diameter Inner, Diameter, Insulation Type, Signals, Conduction Network, Protection Tape, Working Voltage, Insulation	Camera system cable	IEC 61196-5
Electrical	Thickness, Loss at a wavelength, Total Length,	Fiber cable	IEC 60794

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	Cut and wilding, wire cover, Humidity Supports, Mechanical Supports and Tension		
Electrical	Type of Solar Cell, Power, No. of Busbar, Voltage, Current, Efficiency	Solar panels	IEC 61215
Physical – mechanical - chemical	Appearance – dimensions- annealing temperature – alteration due to heat treatment – dichloromethane resistance – internal pressure resistance – impact - toxicity	Plastic piping system – polyvinyl chloride pipes (PVC-U) for water and sewage systems buried and over ground under pressure with accessories	Iraqi standards, no 5160-1 and 5075-2 2019
Physical - Mechanical - Chemical	Dimensions – appearance – pressure – longitudinal rebound – elongation - oxidation	Polyethylene pipes PE	Technical specification 81-2021 1 st modification ISO 4427-2:2019
Physical - Mechanical	Tensile force – yield force – elongation – dimensions	Steel sections	ASTM A36/A36M-19 BS EN 10034:1993
Physical - Mechanical	Appearance – antioxidants – Dimensions – heat resistance – tensile strength – hydraulic pressure resistance – compressive strength	Polyethylene pipes for communication work	Iraqi standards, no 2143 2001 and 1 st modification 2011
Physical - Mechanical	Dimensions – appearance – pressure – longitudinal rebound – elongation - oxidation	Polyethylene tubes for water supply	ISO 4427-2:2019
Physical - Mechanical - Chemical	Fineness – Compressive strength – setting time Na ₂ O- water- CaO- MgO- SO ₃ - L.O. I	Gypsum	Iraqi specification, no 28 2010 Test guide, no 273 2012
Physical - Mechanical	water –Dimensions fracture -absorption strength	Precast concrete flags	Iraqi specification, no 1107
Physical -	compressive –Dimensions	Bricks	Iraqi specification, no 24

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Mechanical	–water absorption –strength efflorescence		Iraqi specification, no 25
Physical - Mechanical	– –Appearance –Dimensions water –compressive strength abrasion –absorption resistance	Concrete pavement bricks	Iraqi standards, no 1606 2017 2ng modification
Physical - Mechanical	–Dimensions – Appearance binding resistance water absorption–	Pre-cast concrete kerbs and channels	Iraqi specification, no 5164 /2022
Physical - Chemical	sulfur salts –Sieve analysis clay	Gravel and sand	Iraqi specification, no 45 /1980
Physical - Mechanical	Specific gravity (Gs)- liquid limit (L.L) % - Plastic limit (P.L) % - Plasticity index (P.I) – Sand(4.75mm-0.074mm) Silt(0.074mm-0.005) Clay (< 0.005mm) – Soil Classification – Maximum dry density – Wopat% Natural moisture contents Inspection of collected specimens form the SPT	Soil investigations	ASTM – D854-2010 ASTM – D4318-2010 ASTM – D422-2010 ASTM – D2487-2010 ASTM – D698-2010 ASTM – D2216 BS-590:1999+A2:2010 ASTM – D2488-09a)
Physical - Mechanical - Chemical	– setting time – softness –compressive strength -Chlorides -soundness Sulfate -Magnesium oxide -loss by burn -content Undissolved residues	Cement	Iraqi specification, no 5 /2019 Iraqi guide:472 Iraqi guide:198
Physical - Mechanical - Chemical	–Dimensions – Appearance Facial –fracture strength Total water –absorption abrasion –absorption sulfate content –resistance	Terrazzo tiles	Iraqi specification, no 1042 /1984 Iraqi guide:31/1989
Physical -	Dimensions – Appearance –	Ceramic floor and wall	General technical requirements

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Mechanical	abrasion –fracture strength resistance - water absorption	tiles	for imported construction materials no.8 ISO 13006/2012 Iraqi specification, no 1704 /1993 specification KS L 1001:2018
Physical - Mechanical	-aligned pipes – Dimensions- Brinell –Surface condition Tensile - hardness HBW	Ductile iron pipes, accessories and their joints for water application test methods	no 2306 Iraqi specification, /2014-1 no 2306 Iraqi specification, /2014-2
Physical - Mechanical	-Visual inspection - -Microstructure examination compressive strength	Manhole	EN-124-D400 no 1490 Iraqi specification, /2020-1
Mechanical	- absorption -Total density - abrasion resistance compressive strength	Natural stone	Iraqi specification, no 1387 /2018 1st modification Iraqi guide:65/1 Iraqi guide:65/2 Iraqi guide:65/3 Iraqi guide:65/4