

شهادة اعتماد

رقم TL 076



يقر نظام الاعتماد العراقي بأن:

مختبر بغداد العالمية للفحوصات الهندسية محدودة المسؤولية شركة خاصة

العراق - بغداد - الكرخ - العطفية - مجاور مستشفى الكرخ

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
- اختبارات المواد الكيماوية
- اختبارات الاجهزة والمعدات الكهربائية والالكترونية

شروط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد
مجال الاعتماد المرفق بالشهادة يعتبر جزءا لا يتجزء منها
يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني

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

يكون الاعتماد نافذا من ٢٠٢٦/٤/٢٧ الى ٢٠٢٨/٤/٢٦

تاريخ منح الاعتماد لأول مرة

٢٠٢٢/٥/٣١

أ.د. خالد بشال النجم
وزير التخطيط/ وكالة

محمد أيمن عمر
مدير عام الهيئة/ وكالة

Ministry of planning
Iraqi Organization for Accreditation
IQAS

ACCREDITATION CERTIFICATE

No. TL 076



Iraqi Accreditation System Certify that:

Baghdad International Laboratory for Engineering Tests Limited Liability Private Company

Iraq – Baghdad -Alkarkh - Alatifia- nearby Alkarkh hospital

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
- Chemical 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

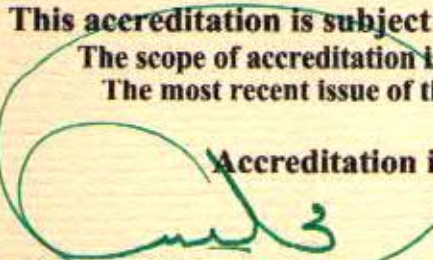
The most recent issue of the accreditation scope is available on IQAS website

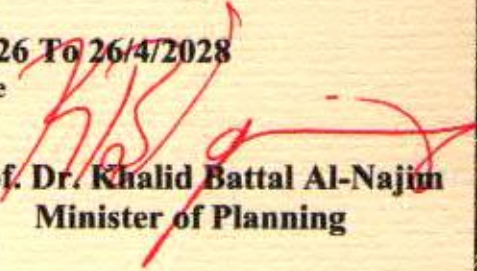
<https://iqas.mop.gov.iq>

Accreditation is valid From 27/4/2026 To 26/4/2028

Initial accreditation date

31/5/2022


Mohammed Ayden Omar
Director General of IQAS


Prof. Dr. Khalid Battal Al-Najim
Minister of Planning

	<p style="text-align: center;">استمارة مجال الاعتماد Scope of Accreditation form</p>	<p style="text-align: center;">نظام الاعتماد العراقي IQAS</p>
Organization address: Iraq – Baghdad -Alkarkh - Alatifia- nearby Alkarkh hospital	Organization name: Baghdad International Laboratory for Engineering Tests Limited Liability Private Company	Accreditation no.: TL 076
Signature:  Abdul Wahid M. Ibrahim Deputy General Manager	Accreditation is valid: From 27/4/2026 To 26/4/2028	Issue no.: 004

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 rupture and breaking strength	Pre – cast concrete tiles	IQS 1107:1992
Mechanical	Determination of modulus rupture 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		

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	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	Determination of form Supplied and Surface Quality	Unplasticized polyvinyl chloride (PVC-U) pipes	DIN 8061 DIN 8062
	Dimensions, Tolerances and out		

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	of Roundness Long-Term Hydrostatic Pressure Determination of Weight Impact Strength Heat Reversion		
Mechanical and Physical	Determination of form Supplied and Surface Quality Dimensions, Tolerances and out of Roundness Long-Term Hydrostatic Pressure Determination of Weight Heat Reversion	Polypropylene (pp) pipes	DIN 8077 DIN 8078
Chemical and Physical	Determination of Compressive Strength Determination of Setting Time Determination of SiO ₂ contents Determination of CaO contents Determination of MgO contents Determination of Fe ₂ O ₃ content Determination of Al ₂ O ₃ content Determination of Loss of Ignition Determination of Insoluble Residue Determination SO ₃ contents	Cement	I.G.O 198 I.Q.S No. 5 I.G.O 472 I.Q.S No. 5
Mechanical and Physical Testing	Determination of Compressive Strength Determination of Absorption Determination of Dimensions	Concrete interlocking paving units	ASTM C140 I.Q.S No. 1606
Physical Testing	Determination of compressive strength Determination of modulus rapture and breaking strength Determination of hardness Determination of Setting time	Gypsum	I.Q.S NO.28:1988

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	Determination of Smoothness		
Mechanical and Physical Testing	Determination of Compressive Strength Determination of Absorption Determination of Dimensions Determination of General Mechanical Appearance and Shape Determination of Leveling of Surface Determination of Dimensions Determination of Water Absorption Determination of Efflorescence	Clay building bricks	I.Q.S 24 I.Q.S 25
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 Determination of Absorption Determination of Compressive Strength	Concrete masonry units	I.Q.S 32 ASTM C140
Mechanical and Physical	Determination of Flexural Determination of Dimensions Determination of Absorption Determination of Appearance Determination of Wear	Terrazzo tiles	I.Q.S 1042
Mechanical and Physical	Determination of Flexural Determination of Dimensions Determination of Absorption Determination face leveling	Precast concrete flags	I.Q.S 1107 I.G.O 995
Mechanical	Determination of Bending	Concrete kurb units	ISO 1340

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and Physical	Determination of Dimensions Determination of Absorption Determination of Texture		I.Q.S 5164
Mechanical and Physical	Determination of Dimensions Determination of Absorption Determination of Compressive Strength Determination of Finish and Appearance	Nonloadbearing concrete masonry units	I.Q.S 5190
Mechanical and Physical	Determination of dimensions and anical surface quality Determination of Modulus of Rupture and Breaking Strength	Ceramic tiles	ISO 13006 ISO 10545-2
Physical and Chemical	Determination of Grading (Sieve Analysis) Determination of Finer Than 0.075mm Determination SO ₃ contents	Coarse aggregate (gravel)	I.Q.S 45 I.G.O 500/3
Physical and Chemical	Determination of Grading (Sieve Analysis) Determination of Finer Than 0.075mm Determination SO ₃ contents	Fine aggregate (sand)	I.Q.S 45 I.G.O 500/3
Physical and Chemical	Standard test method for Marshall stability and flow and air void and bulk density Quantitative Extraction of Asphalt Binder from Asphalt Mixtures Determination of Compaction and Thickness Standard test Method for Asphalt Content of Asphalt Mixture and Sieve Analysis	Asphalt concrete	ASTM D6927 ASTM D2172 ASTM D3549 ASTM D6307 ASTM D136

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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	Cone Penetration Flow Bond	Sealants and fillers, hot and cold- applied for joints and cracks	ASTM D5329 I.Q.S 1110 I.Q.S 1136
Physical and Mechanical	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	Kinematic Viscosity	Cutback asphalt prime coat Tack coat	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 Chemical	Penetration Test	Asphalt used in roofing	ASTM D36 ASTM D92 ASTM D113 I.Q.S 1196 ASTM D5
	Ductility		
	Flash Point		
	Softening Point		
	Solubility in Trichloroethylene	Sub base	
Physical and Chemical	Determination of grading (sieve analysis)		ASTM C136

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	<p>Determination of maximum dry density</p> <p>Determination of California bearing ratio</p> <p>Determination of density and unit weight of soil in place</p> <p>Testing determination of SO₃ contents</p> <p>Determination of T.S.S contents</p>		<p>ASTM D1557</p> <p>ASTM D1883</p> <p>ASTM D2167 ASTM D1556</p> <p>B.S 1377-3</p> <p>Earth manual E8</p>
<p>Physical, and Mechanical</p>	<p>Determination of density of soil in place by the drive-cylinder method</p> <p>Determination of maximum dry density</p> <p>Determination of grading (sieve analysis)</p> <p>Determination of Finer Than 0.075mm</p> <p>Determination of the liquid limit, plastic limit, and the plasticity index of soils</p> <p>Determination of California Bearing Ratio</p>	<p>Soil</p>	<p>ASTM D2937</p> <p>ASTM D698 ASTM D1557 ASTM C136</p> <p>ASTM D1140</p> <p>ASTM D4318</p> <p>ASTM D1883</p>
<p>Chemical</p>	<p>Determination of SO₃ contents</p>		<p>B.S 1377-3</p>
<p>Physical and Chemical</p>	<p>Determination of TSS, Cl, SO₃, and Organic content for soil PH, Cl, SO₄, and TDS for water</p> <p>Determination of Atterberg Limits (liquid limit and plastics limit)</p> <p>Determination of Direct Shear</p> <p>Determination of Grain Size Analysis</p> <p>Determination of Weight</p>	<p>Soil investigation</p>	<p>B.S 1377 Earth manual E8</p> <p>ASTM D 4318</p> <p>ASTM D 3080 ASTM D 422</p> <p>B.S 1377</p>

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	<p>Neutral Water Content</p> <p>Field Standard Penetration Test</p> <p>Unconfined Compression Test</p> <p>Specific Gravity</p> <p>Consolidation Test</p>		<p>ASTM D 2216</p> <p>ASTM D 1586</p> <p>ASTM D 2166</p> <p>ASTM D 854</p> <p>ASTM D 2435</p>
<p>Physical and Chemical</p>	<p>PH</p> <p>Melting point</p> <p>Density</p> <p>Water solubility</p> <p>Appearance</p> <p>AL₂O₃</p> <p>FE₂O₃</p> <p>Water insoluble matter</p> <p>Pb</p> <p>Particle Size</p>	<p>Aluminum sulfate powder</p>	<p>HG 2225-2010</p> <p>CDC 6 (960) DTZS (BS EN 878: 2016)</p>
<p>Physical and Chemical</p>	<p>appearance</p> <p>chlorine</p> <p>Density, g/ml</p> <p>Na₂ClO₃, %w/v</p> <p>Na₂ClO₃</p> <p>Fe</p> <p>Co</p> <p>Cu</p> <p>Ni</p> <p>Hg</p> <p>As</p> <p>Cd</p> <p>Cr</p> <p>Pb</p> <p>Sb</p> <p>Se</p>	<p>Chlorine powder</p>	<p>ISIRI 2361</p>
<p>Physical</p>	<p>Determination of dimension</p> <p>Determination of water</p>	<p>Pre – cast concrete tiles</p>	<p>IQS 1107:1992</p>

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	absorption		
	Determination of class		
Physical and Chemical	Determination deviation from straightness	Ceramic tiles	Iraqi technical requirement NO.8 EN ISO 10545 PART 4
	Determination deviation from flatness in surface		
	Determination of water absorption		
	Determination chemical resistance		
Physical and Mechanical	Determination of Residual strength resulting from water damage	Asphalt mixtures	AASHTO T283
Physical	Roughness Flatness Level of asphalt layer	Asphalt	ASTM E1364 ASTM E1703 AASHTO R41
Physical and Chemical	Determination of Gypsum contents	Sub base	Earth manual E8
	Determination of clay contents		
	Determination of organic contents		
Physical and Mechanical	Determination of Elongation	Aluminum section	ASTM A370
	Determination of Tensile strength		ASTM A36
	Determination Yield strength		ASTM A529
	Determination of Dimensions		EN 485-4
Physical and Mechanical	Determination of Dimensions	Anchor bolts, screw, wisher, Shear connector	ASTM A325
	Determination of Elongation		ASTM F1554
	Determination of Tensile strength		ISO 989
	Determination Yield strength		
	Determination Bending		
	Deformation Requirements		
Determination of Weight			

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Mechanical	Determination of pressure	Pipe, steel, black and hot dipped, zinc-coated, welded and seamless	ASTM A370 ASTM A53 ASTM A106 ASTM B280
	Hardness		
Physical and Mechanical and chemical	Determination of dimension	Cooper pipes	ASTM B42
	Determination of pressure		
	Determination Yield strength		
	Determination Elongation		
Physical and Mechanical	Coper percentage	Ductile iron pipes, fittings, accessories and their joints for water applications	ISO 2531
	Determination Hardness		
	Determination Ovality		
Mechanical and Chemical	Determination of Pressure	Unplasticized polyvinyl chloride (PVC-U) pipes	DIN 8061 DIN 8062
	Strength at yield		
	Elongation at yield		
	Resistance to dichloromethane		
Mechanical	Determination of Pressure	Polypropylene (PPR) Pipes	DIN 8077 DIN 8078
	Impact Strength		
	Strength at yield		
Physical and Mechanical	Elongation at yield	GRP Glass Reinforced Polyester Pipes	ISO23856/2021
	Dimensions		
	Hydrostatic Pressure		
	Thickness		
	Tensile strength		
	Impact test		
Chemical	Stiffness	Resistance to dichloromethane	
Physical and Mechanical	Resistance to dichloromethane	Polyethylene pipes (PE Pipes)	DIN 8074
	Dimensions		
	weight		
	Hydrostatic Pressure		
	Thickness		
	Tensile strength		
	Impact		
	Hardness		

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Chemical	Resistance to dichloromethane		
Physical and Mechanical	Determination of Stability	Cement	I.G.O 472
	Determination of Softness		I.Q.S No. 5
Chemical	Loss by burning	Gypsum	I.Q.S NO.28:1988
	Percentage of SO3		
	Percentage of Cao		
	percentage of united water		
Physical and Chemical	Determination of clay content	Coarse Aggregate (gravel)	I.Q.S 45
	Determination of light materials content		
	Determination of organic content		I.G.O 500/3
Physical and Chemical	Determination of clay content	Fine Aggregate (sand)	I.Q.S 45
	Determination of light materials content		
	Determination of organic content		I.G.O 500/3
Physical and Mechanical	Determination of elongation	Bituminous sheet material	ASTM D5147 IQS 4
	Density		
	Determination of cracks		
Physical and Mechanical	Determination of breaking strength and elongation	Bitumen Felts	ASTM D5147 IQS 4
	Density		
	Determination of cracks		
	Determination of pliability		
	Determination of thickness		
	Determination of Loss on Heating		ASTM D146
Physical	Effect of temperature	Sealants and Fillers, Hot and Cold- Applied for Joints and Cracks	I.Q.S 1136
Physical and Mechanical	Elastic recovery	Polymer Asphalt	ASTM D113
	G*/ Sin Δ original binder @ 76, kPa		SORB \R9
	G*/ Sin Δ by short term aging		ASTM D6084

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	RTFO@ 76, kPa		
Physical and Mechanical	Dimension	Manhole cover	BS EN 124 IQS 1490
	Load bearing		
	Group and classification		
	Uses		
Physical and Mechanical	Maximum load	Load test for concrete structure	ACI-318
	Deflection		
Physical and Mechanical	Maximum load	Pile Load test	ASTM D-1143 IBC 302
	Deflection		
Physical and Mechanical	Maximum load	Plate load test	ASTM D-1196
	Deflection		
Physical and Mechanical	Dimension	Sandwich panel	EN14509
	Density of isolation materials		
	compressive strength of isolation materials		
Physical and Mechanical	Dimension	Foam Styropor	ASTM C272 ASTM C203 ASTM C303 ASTM D2126 ASTM D1621 EN 13501-1
	Density		
	Water absorption		
	Compressive resistance		
	Flexural strength		
Chemical	Quantity of Pb	Extractability of toxicity materials in water	I.Q.S 417
	Quantity of Cd		
	Quantity of Hg		
	Quantity of Sn		
	Quantity of Ni		
	Quantity of MN		
	Quantity of Cr		
	Quantity of Fe		
	Quantity of Zn		
	Fe ₂ O ₃		
Physical and Mechanical	Type and class	Adhesive ma Adhesive materials	
	Extended Open Time		

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	Tensile strength	terials	EN:12004
	Slip-Resistance		
Physical and Mechanical	Dimension	Cement Board	ASTM C 1185 ASTM C 518 ASTM C 696 ASTM D 1037 EN 13501-1
	Density		
	Appearance		
	Water absorption		
	Compressive resistance		
	Determination of Humidified deflection		
	Flexural strength		
	Thermal Expansion		
Physical and Mechanical	Dimension	Gypsum Board Boardex panel Frontek panel	IQS 1676 EN 520 EN 13501-1 EN ISO 10545-2 ASTM E136
	Density		
	Appearance		
	Deviation due to humidity		
	Flexural strength		
	Compressive resistance		
	Thermal Expansion		
Physical and Mechanical	Dimension	Wool materials	IQS 1470
	Density		
	Absorption		
	Compressive resistance		
	Thermal stability		
Physical and Mechanical	Density	Epoxy materials	EN ISO 527 ASTM 638 ASTM 790 ASTM D 2240 ASTM C 307
	Flash point		
	Solubility in water		
	Tensile Strength		
	Flexural Strength		
	Physical state		
	Coat thickness		
	Solid content		
	Full curing		
Physical and	Density		IQS 1555

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<p>Organization address: Iraq – Baghdad -Alkarkh - Alatiffa- nearby Alkarkh hospital</p>	<p>Organization name: Baghdad International Laboratory for Engineering Tests Limited Liability Private Company</p>	<p>Accreditation no.: TL 076</p>
<p>Signature:  Abdul Wahid M. Ibrahim Deputy General Manager</p>	<p>Accreditation is valid: From 27/4/2026 To 26/4/2028</p>	<p>Issue no.: 004</p>

<p>Chemical</p>	<p>Grading limit SO₃ percentage Solubility in HCL organic content silica content sieve analysis</p>	<p>Filter materials Sand and gravel Filters</p>	
<p>Physical, Mechanical and Chemical</p>	<p>Number of reinforcements Dimension Spacing and Diameter of steel bar area of reinforcement Absorption Compressive strength cover of reinforcement Shape and defect point SO₃ content</p>	<p>Concrete pipe</p>	<p>AASHTO T280-06 IQS 1432</p>
<p>Chemical</p>	<p>Carbon Manganese Phosphorus Sulfur Silicon Cooper</p>	<p>Steel section (plate, pipe, shape) and steel bars, Anchor bolt, shear connector, bolts, screw</p>	<p>ASTM A36</p>
<p>Physical and Mechanical</p>	<p>Dimension Compressive strength determination of cracks</p>	<p>Nondestructive test (ultrasonic and hammer)</p>	<p>ASTM C 597 ASTM C 805</p>
<p>Physical and Mechanical</p>	<p>Dimension Tensile strength Elongation at break Linear dimensional change</p>	<p>Lamella sheet</p>	<p>ISO 11922-1 ASTM D938 ASTM D1004 ASTM D1204</p>
<p>Chemical</p>	<p>SO₃ Carbonate and bicarbonate Chloride Inorganic impurities</p>	<p>Water for contraction purpose</p>	<p>IQS 1703 IQS.2270</p>

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	<p>organic impurities</p> <p>TDS</p> <p>Hardness</p> <p>PH</p>		
Chemical	<p>TDS</p> <p>TSS</p> <p>PH</p> <p>BOD</p> <p>COD</p> <p>Ammonia NH3</p> <p>Nitrate NO2</p> <p>Pats. Oil greense</p> <p>Total bacteria removal</p> <p>99.99% virus removal</p> <p>Turbidity</p> <p>Phenol</p>	<p>Wastewater from sewer system</p> <p>Wastewater disposal from treatment plant</p>	<p>Environmental Limitation IQS 25</p>
Physical and Mechanical	<p>Determination of Appearance</p> <p>Determination of dimension</p> <p>Determination of density</p> <p>Determination of modulus of rupture</p> <p>Determination of water absorption</p> <p>Determination of compressive strength</p> <p>Determination of wear resistance</p>	<p>Natural stone Granite, Marble, basalt</p>	<p>IQS 1837 IGO 65</p>
Mechanical	<p>Determination of bond strength of steel rebar</p>	<p>pull out test rebar in site</p>	<p>client's requirements</p>
Physical and Mechanical	<p>Appearance</p> <p>Determination of dimension</p> <p>Impact test</p> <p>Resistance to Fragmentation</p>	<p>Glass</p>	<p>ASTM C1048 DIN EN ISO 12543 BS-EN 12150 IQS 1608</p>
Physical and Mechanical	<p>Appearance</p> <p>Specific gravity</p>	<p>Exterior and interior Paints</p>	<p>I.Q.S 985 I.Q.S 871</p>

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	<p>Heat Stability</p> <p>Dilute in Water</p> <p>Drying Time</p> <p>Chemical resistance</p> <p>Wash resistance</p> <p>Color</p> <p>Shine</p> <p>Spray feature</p> <p>Contrast ratio of white</p> <p>Water resistance</p> <p>Glass ball</p> <p>Slip resistance</p> <p>Uses</p>	<p>Red oxide – Linseed oil Priming Paint Priming Coat Zinc – Yellow Iron Oxide Ready Mixed Enamel, Alkyd, Gloss Air Drying for Exterior and Interior Surfaces Hot –Applied Thermoplastic Road Traffic, Highway, White & Yellow Paint</p>	<p>I.Q.S 877 I.Q.S 960 I.Q.S 1744 I.Q.S. 1101</p>
<p>Physical and Mechanical</p>	<p>Determination water content</p> <p>Determination Time setting</p> <p>Determination Compressive strength</p> <p>Determination Flexural Strength</p> <p>Determination shrinkage Length change</p>	<p>Additive materials for concrete</p>	<p>ASTM C494/C 494</p>
<p>Physical and Mechanical</p>	<p>Determination of Dimensions</p> <p>Stability of dimension</p> <p>Antibacterial resistance</p> <p>Impact resistance</p> <p>Isolation</p> <p>Effect of change in Temperature</p> <p>Effect of Humidity</p> <p>Wear resistance</p>	<p>Acoustic ceilings PVC floor and door PVC marble PVC wood PVC chair</p>	<p>EN 13501-1 (ISO) 20743 IQS 1168 EN ISO 10582 BS 4203 EN426</p>

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<p>Physical and Mechanical</p>	<p>Insulation test Generic general specification, Definition and requirements Dimensions Determination Ratio test TTR Omicron cpc 100 Determination of Finish and Appearance Determination of DC voltage test Determination of Max. Conductor Resistance Determination of Elongation for Insulation, Sheath and Conductor Tensile Strength for Insulation, Sheath and Conductor Determination of Yield Strength for Insulation, Sheath and Conductor</p>	<p>Electrical Power transformers Circuit breakers Wires Cables Coaxial Conductors Electric generators Lights Fans Solar cells</p>	<p>Iraqi building code 402/1:2015 IEC 60076 /1-11 IEC 60502-1 IEC 60288</p>
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