



الإشارة: ٩٨١ / ٥٧٩ / ١٤٠٢
التاريخ: ٨ / ١ / ١٤٠٢

قائمة المختبرات المعتمدة في شهر يناير 2012

الموقر	سعادة/ رئيس هيئة الأشغال العامة
المحترمين	السادة/ مدراء الشؤون والإدارات
المحترمين	السادة/ مدراء المشاريع
المحترمين	السادة / مدراء المختبرات الخاصة
المحترمين	السادة / المقاولين والاستشاريين

السلام عليكم ورحمة الله وبركاته،،،

بناءً على التعميم رقم 38 لسنة 2007 وبناءً على التقييم الدوري لفريق مراقبة المختبرات نرفق لسيادتكم قائمة المختبرات المعتمدة في شهر يناير 2012 والتي يمكن التعامل معها في مشاريع أشغال.

نحيطكم علماً أن هذه القائمة هي ترقية للقائمة السابقة التي تعتمد على نوع الاختبار باعتباره الأساس في اختيار المختبر المناسب وذلك من خلال شهادة الأيزو 17025 للوصول إلى المختبر المناسب لكل اختبار تسهيلاً للمستخدمين، ونوجز هذه التعديل في هذه القائمة بالتالي:-

1. تم إلغاء اعتماد مختبرات البراحة الفنية من قائمة المختبرات المعتمدة لدى أشغال نظراً لعدم مصداقيتها في

التعامل وعدم كفاءتها في الاعمال، وعليه يجب وقف التعامل مع مختبرات البراحة الفنية من تاريخه

ملاحظة:

الجدول الحالي يمثل قائمة التجارب المعتمدة لكل مختبر حسب شهادة الأيزو ISO17025 وليست بالضرورة ما هو معتمد في مواصفات البناء القطرية QCS2007، علماً انه سيتم اعتماد التجارب الواردة في المواصفات البناء القطرية QCS2010 بعد صدورها، حيث انه تم تحديد هذه الاختبارات وتحسينها. لذا على جميع المختبرات العمل على الحصول على شهادة ISO17025 للاختبارات الواردة في المواصفة.

يمكن الإطلاع أو الحصول على نسخة من قائمة المختبرات النهائية المعتمدة من خلال موقع الهيئة www.ashghal.gov.qa. لمزيد من المعلومات يمكنكم الاتصال بإدارة الجودة والسلامة من خلال البريد

الالكتروني: Quality&Safety@ashghal.gov.qa

م/ خالد محمد العمادي

مدير إدارة الجودة والسلامة

1- Aggregate Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
1.1	Particle density & water absorbtion for aggregate 10mm nominal size & smaller	BS 812:part 2:1995	√	-	-	√	-	-	-	√	√	-	-
1.2	Particle density & water absorbtion for aggregate all larger than 10mm	BS 812:part 2:1995	√	-	-	√	√	√	√	√	√	-	-
1.3	Partical size distribution-washing and sieving	BS 812:part103 section 103-1:1985	√	-	-	√	√	-	-	√	-	√	-
1.4	Sieve analysis on Fine & coarse Aggregate	ASTM C 136	√	√	√	√	√	-	-	√	√	-	-
1.5	Flakiness index	BS 812:part105 section 105-1:1989	√	√	-	√	√	√	√	√	√	√	√
1.6	Elongation index	BS 812:part105 section 105-2:1990	√	√	-	√	√	√	√	√	√	√	-
1.7	Moisture content -oven dry method	BS 812:part 109:1990	√	-	-	-	-	-	√	√	√	-	-
1.8	Aggregate crushing value - Particle size 10mm and greater (forces from 30to3000kN)	BS 812:part 110:1990	√	-	-	-	-	√	-	√	√	-	-
1.9	Ten Percent fines value -dry- particle size 10mm and greater (forces from 30to3000kN)	BS 812:part 111:1990	√	-	-	-	√	-	-	√	-	-	-
1.10	Aggregate impact value -dry	BS 812:part 112:1990	√	-	-	-	-	√	-	√	√	-	-
1.11	Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-06	√	-	-	-	-	-	-	-	√	√	-
1.12	Los Angeles abrasion value	ASTM C 131-03	-	-	-	√	-	-	-	√	-	-	-
1.13	Resistance to degradation of large-size coarse of aggregate by abrasion and impact in the Los Angeles Machine	ASTM 535-03	√	-	-	-	-	-	-	√	-	√	-

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
1.14	Material Finer Than 75-µm (No. 220) Sieve in Mineral Aggregate by washing	ASTM C 117	√	√	√	√	-	-	-	-	-	-	-
1.15	Density, Relative Density (Specific Gravity). & water Absorption of Coarse Aggregate	ASTM C 127	√	√	√	√	-	-	√	-	-	-	-
1.16	Density, Relative Density (Specific Gravity). & water Absorption of Fine Aggregate	ASTM C 128	√	√	√	√	-	-	-	-	-	-	-
1.17	Soundness of aggregate using Sodium Sulfate or Magnesium Sulfate	ASTM C 88 - 99	-	-	-	√	-	-	-	√	-	-	-
1.18	Sampling Coarse, Fine and all- in aggregate-form heaps	BS 812:Part 102:1989	√	-	-	-	-	-	-	-	-	-	-
1.19	Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C 40	-	-	√	-	-	-	-	√	-	-	-
1.20	Determination of aggregate soundness	BS 812:Part 121	-	-	-	-	-	-	-	√	-	-	-
1.22	Test method for determination of chloride content of aggregate	BS 812-117 (Appendix C)	√	√	-	√	√	√	√	√	-	-	-
1.22	Determination of the total sulphate content by acid extraction	BS 812-118 Clause 6	√	√	-	√	-	√	-	√	-	-	-
1.23	Tests for chemical properties of aggregates. Chemical analysis	BS EN 1744-1:1998	-	-	-	-	-	-	√	-	-	-	-
1.24	Clay lumps and friable particles	ASTM C142	√	-	-	-	-	-	√	-	-	-	-
1.25	Shell Content	BS 812 Part 106	√	-	-	-	-	-	√	-	-	-	-

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2- Concrete Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
2.1	Sampling of Fresh concrete	BSEN 12350-1	√	√	√	-	-	-	-	-	-	-	-
2.2	Slump test of fresh concrete	BSEN 12350-2	-	√	√	-	-	-	-	√	-	-	-
2.3	Compressive strength of test specimens	BSEN 12390-3	√	√	-	√	√	√	-	-	√	-	-
2.4	Determination of Flow	BSEN 12390-5	-	-	-	-	-	-	-	-	-	-	-
2.5	Determination of Density of compacted fresh concrete	BSEN 12390-6	-	-	-	-	-	-	-	-	-	-	-
2.6	Density of Hardened concrete	BSEN 12390-7	√	√	-	√	√	-	√	-	-	-	-
2.7	Density of Hardened concrete	BS 1881-part 114:1983	-	-	-	-	-	-	-	-	-	√	-
2.8	Method of Determination of water absorption	BS 1881-part 122	√	√	√	√	-	-	√	√	-	-	-
2.9	Determination of RCP of Concrete	ASTM C 1202	√	√	-	√	-	-	-	√	-	-	-
2.10	Method of determination of water penetration	DIN 1048-Part 5	√	√	-	-	-	-	-	√	-	-	-
2.11	Compressive strength of cubes-including (Forces from 30 to 3000kN)	BS 1881-part 116:1983 BS 1881-part 111:1983	√	-	-	-	-	-	-	√	-	√	√
2.12	Compressive strength of cubes-including (Forces from 30 to 3000kN)	BSEN 12390-2:2009 BSEN 12390-3:2009	√	-	√	-	-	-	√	√	-	-	-
2.13	Shape and dimension of Specimens	BSEN 12390-1:2000	√	-	-	-	-	-	-	-	-	-	-
2.14	Method for Determination of Compressive Strength of Concrete Cores	BSEN 12504-1:2009	√	-	√	-	-	-	-	√	-	-	-
2.15	Method for Determination of Compressive Strength of Concrete Cores	BS 1881:part 120	-	-	-	-	-	-	-	√	-	-	-
2.16	determination of dimensions of a single unit of concrete curb	BSEN 1340 Annex C	-	-	-	-	√	-	-	-	√	-	-
2.17	Determination of total water absorption of concrete curb	BSEN 1340 Annex E	-	-	-	-	√	-	-	-	-	-	-

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
2.18	Measurement of bending strength of concrete curb	BSEN 1340 AnnexF	-	-	-	-	√	-	-	-	-	-	-
2.19	Precast concrete paving blocks	BS 6717 Part1 :1993	-	-	-	-	-	√	-	√	-	-	-
2.20	Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C 1064	-	-	√	-	-	-	-	-	-	-	-
2.21	Determination of the initial surface absorption of concrete	BS 1881-208	-	-	√	-	-	-	-	√	-	-	-
2.22	Sampling of Fresh concrete on site	BS1881:part 101:1983B	√	-	-	-	-	-	-	√	-	-	-
2.23	sampling from initial discharge (slump test)	BS1881:part 102:1983B	√	-	-	-	-	-	-	√	-	-	-
2.24	Air Content-Method B	BS1881:part 106:1983B	√	-	-	-	-	-	-	-	-	-	-
2.25	Making Test Cubes	BS 1881:part108:1993	√	-	-	-	-	-	-	√	-	-	-
2.26	Method for specifying precast concrete masonry units	BS 6073-2	-	-	-	-	-	-	-	√	-	-	-
2.27	Dimension of hollow concrete blocks	BS 6073 Appendix A	-	-	-	-	-	-	-	-	-	-	-
2.28	Compressive strength of hollow concrete blocks	BS 6073 Appendix A	-	-	-	-	-	-	-	-	-	-	-
2.29	Method for Half-Cell Potentials of Uncoated Reinforcing Steel in Concrete	ASTM C876	-	-	-	-	-	-	-	√	-	-	-
2.30	Testing hardened concrete-Depth of penetration of water under pressure	BS EN 12390-8	-	-	-	-	-	-	-	√	-	-	-
2.31	Determination of chloride content	BS 1881-124 Clause 10.2	-	√	-	√	√	-	√	√	-	-	-
2.32	Determination of sulphate content	BS 1881-124 Clause 10.3	-	√	-	√	√	-	√	√	-	-	-

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3.16	Method for laboratory determination of water (moisture) content of soil and rock by Mass	ASTM D 2216	-	-	<	-	-	-	-	-	-	-	-
3.17	Determination of organic matter content	BS 1377-3 Clause 3	-	√	-	√	-	-	√	√	-	-	-
3.18	Determination of the sulphate content of Soil (Acid extract and water extract)	BS 1377-3 Clause 5.2 & 5.3	-	√	-	√	√	√	√	√	-	-	-
3.19	Determination of the carbonate content	BS 1377-3 Clause 6	-	√	-	√	-	-	-	√	-	-	-
3.20	Determination of the chloride content (Acid extract and water extract)	BS 1377-3 Clause 7.2 & 7.3	-	√	-	√	-	√	√	√	-	-	-
3.21	Determination of pH of Soil	BS 1377-3 Clause 9	-	-	-	√	-	-	√	√	-	-	-

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4- Asphalt Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
4.1	Mechanical size analysis of extracted aggregates	ASTM D5444-05	√	-	-	-	-	-	-	-	-	-	-
4.2	Marshall stability and flow (forces from 2.5 to 50 kN)	ASTM D 6927-06	√	-	-	-	-	-	-	-	-	-	-
4.3	Determination of Needle Penetration	BSEN 1426	-	√	-	-	-	-	-	-	√	-	-
4.4	Determination of softening Point (Ring & Ball Method)	BSEN 1427	-	√	-	-	-	√	-	-	-	-	-
4.5	Density of semi-Solid Bituminous Material (Pycnometer Method)	ASTM D 70	-	√	-	-	-	-	-	-	-	-	-
4.6	Soluble Binder Content	BSEN 12697-1	-	√	-	-	√	-	-	-	-	-	-
4.7	Determination of Particle Size Distribution	BSEN 12697-2	-	√	-	√	√	-	-	-	-	-	-
4.8	Determination of Maximum Density	BSEN 12697-5	-	√	-	√	-	-	-	-	-	-	-
4.9	Determination of Bulk Density of Bituminous Material	BSEN 12697-6	-	√	-	√	√	-	-	-	-	-	-
4.10	Determination of Voids Characteristics of Bituminous specimens	BSEN 12697-8	-	√	-	√	-	-	-	-	-	-	-
4.11	Preparation of samples for determining Binder Content, Water Content & Grading	BSEN 12697-28	-	√	-	-	√	-	-	-	-	-	-
4.12	Determination of dimension of Bituminous Specimens	BSEN 12697-29	-	√	-	√	-	-	-	-	-	-	-
4.13	Specimen Preparation by impact Compactor	BSEN 12697-30	-	√	-	√	√	-	-	-	-	-	-
4.14	Marshall Test	BSEN 12697-34	-	√	-	√	-	-	-	-	-	-	-
4.15	Determination of Particle Size Distribution (Sieves Method)	BSEN 933-1	-	√	-	-	-	-	√	-	√	-	-
4.16	Methods of test for the Determination of the Composition of design wearing course rolled asphalt	BS 598-107 :1990	-	√	-	-	√	-	-	-	√	-	-

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
4.17	Methods of test for the Determination of density and Compaction	BS 598-104 test 4	-	√	-	√	-	√	√	√	√	-	-
4.18	Quantitative Extraction of bitumen from bituminous paving mixture	ASTM D 2172	-	√	-	√	√	-	√	√	√	√	-
4.19	Sampling and examination of bituminous mixtures for roads and other paved areas. Analytical test methods	BS 598 part 102	-	-	-	-	-	-	√	√	-	-	-
4.20	Bulk Specific Gravity & Density of Non Absorptive Compacted Bituminous mixture	ASTM D 2726	-	√	√	√	-	-	√	-	-	-	-
4.21	Determination of binder content by ignition and Particle Size Distribution	BSEN 12697-39:2004	-	-	-	√	-	-	-	-	-	-	-
4.22	Determination of the thickness of a bituminous pavement	BSEN 12697-36	-	-	-	-	√	-	-	-	-	-	-
4.23	Thickness of asphalt core	ASTM D 3549-03	-	-	√	-	-	-	-	-	-	-	-
4.24	Method for Penetration of Bituminous Materials	ASTM D 5-06E1	-	-	-	-	-	√	-	-	-	-	-
4.25	Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	ASTM D 2041-03A	-	-	-	-	-	√	-	-	-	-	-

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5.40	Heavy Metals Concentrations	APHA/ SM/ 3120 B Heavy metal analysis by ICP APHA/ SM/ 3110 B Heavy metal analysis by Atomic absorption Spectrometry	√	-	-	√	-	-	-	-	-	-	-	√
Microbiology test														
5.41	Total Coliforms	APHA/AWWA 9222B & 9222D	-	-	-	√	-	-	-	-	-	-	-	√
5.42	Fecal Coliform	APHA/AWWA 9222D	-	-	-	√	-	-	-	-	-	-	-	√
5.43	E-Coli	APHA/AWWA 9223B& G	-	-	-	-	-	-	-	-	-	-	-	√
5.44	Nematodes (Helminth) Eggs	WHO, Lab manual of parasitological and bacteriological techniques, 1996	-	-	-	-	-	-	-	-	-	-	-	√
5.45	Microscopic Examination		-	-	-	-	-	-	-	-	-	-	-	√

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S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
6.11	standard practices for preparing rock core as cylindrical test specimance to dimensional and shape tolerance	ASTM D4543	-	-	-	-	-	-	√	-	-	-	-
6.12	Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D5731	-	-	-	-	√	-	-	-	-	-	-
6.13	Dirct shear on Rocks	ASTM D5607-96	-	√	-	-	-	-	-	-	-	-	-
6.14	Swelling potential	ASTM D4546-96	-	√	-	-	-	-	-	-	-	-	-
6.15	Density of Undisturbed Samples	BS 1377:Part2:1990	-	√	-	-	-	-	-	-	-	-	-

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7- STEEL Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
7.1	Bend test	BS 4449: 1998 App.C Clause 6.1	√	√	-	-	-	-	-	√	-	-	-
7.2	Rebend Test	BS 4449: 1998 App.E Clause E1.6	√	√	-	-	-	-	-	√	-	-	-
7.3	Tensile Test	BS 4449: 1998 App.E Clause E1.4	√	√	-	-	-	-	-	√	-	-	-
7.4	Test Methods and Definitions for Mechanical Testing of Steel Products	ASTM A370	√	-	-	-	-	-	-	√	-	-	-
7.5	Test Methods for Notched Bar Impact Testing of Metallic Materials	ASTM E23	√	-	-	-	-	-	-	√	-	-	-
7.6	testing of metallic materials	BS EN 10002	√	-	-	-	-	-	√	√	-	-	-
7.7	test on metallic materials. Test method (V- and U-notches)	BS EN 10045	√	-	-	-	-	-	-	√	-	-	-
7.8	The Izod impact test of metals	BS 131 Part1	-	-	-	-	-	-	-	√	-	-	-
7.9	Fastener Mechanical test	ASTM F606/ISO891	√	-	-	-	-	-	-	-	-	-	-
7.10	Fastener Pull-out test	ASTM E488 MethodA/ASTM F606/BS EN ISO 898-1	√	-	-	-	-	-	-	-	-	-	-
7.11	Replica Surface microstructure	ASTM E1351	√	-	-	-	-	-	-	-	-	-	-

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8- Cement Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
8.1	Determination of strength	BSEN 196-1	-	√	-	√	-	-	-	√	-	-	-
8.2	Determination of setting time & soundness	BSEN 196-3	-	√	-	√	-	-	-	√	-	-	-
8.3	Determination of Fineness	BSEN 196-6	√*	√*	-	√	-	-	-	√	-	-	-
8.4	methods of taking and preparing samples of cement	BSEN 196-7	-	√	-	-	-	-	-	√	-	-	-
8.5	Setting time of Portland cement	ASTM-C191	-	-	√	-	-	-	-	-	-	-	-
8.6	Normal Consistency of Portland cement	ASTM-C187	-	-	√	-	-	-	-	-	-	-	-
8.7	Determination of loss on ignition	BSEN 196-2 clause 7	-	√	-	√	-	-	-	√	-	-	-
8.8	Decomposition with hydrochloric acid and ammonium chloride and precipitation of silica (alternative method)	BSEN 196-2 clause 13.5	-	√	-	√	-	-	-	√	-	-	-
8.9	Determination of pure silica	BSEN 196-2 clause 13.6	-	√	-	√	-	-	-	√	-	-	-
8.10	Determination of calcium oxide by EDTA (alternative method)	BSEN 196-2 clause 13.14	-	√	-	√	-	-	-	√	-	-	-
8.11	Determination of magnesium oxide by EDTA (alternative method)	BSEN 196-2 clause 13.15	-	√	-	√	-	-	-	√	-	-	-
8.12	Determination of Aluminum oxide	BSEN 196-2 clause 13.11	-	-	-	√	-	-	-	√	-	-	-
8.13	Determination of Ferric oxide	BSEN 196-2 clause 13.10	-	-	-	√	-	-	-	√	-	-	-
8.14	Determination of Total Silica	BSEN 196-2 clause 13.9	-	-	-	√	-	-	-	√	-	-	-
8.15	Determination of Total Alkalis (Na ₂ O+0.658 K ₂ O)	BSEN 196-2 clause 17	-	-	-	√	-	-	-	√	-	-	-

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro
8.16	Methods of testing cement -Quantitative	BSEN 196-4	-	-	-	-	-	-	-	√	-	-	-
8.17	Determining the pozzolanicity of pozzolanic cements	BSEN 196-5	-	-	-	-	-	-	-	√	-	-	-
8.18	Determination of the chloride, carbon dioxide and alkali content of cement	BSEN 196-21	-	-	-	-	-	-	-	√	-	-	-

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9- Non Destructive Tests

S.N.	Type of test	Standard spec.	Exova	ACES	ACTS	Gulf Lab	Tech Lab	DTL	QIL	QEL	Pioneer	Tyseer	Fugro	ITL	Ashghal
9.1	Falling Weight Deflectomete		-	-	-	-	-	-	-	-	-	-	-	√	√
9.2	Road Profilometer (IRI)		-	-	-	-	-	-	-	-	-	-	-	√	√
9.3	Light Deflectometer		-	-	-	-	-	-	-	-	-	-	-	-	-
9.4	Pavement Quality Indicator		-	-	-	-	-	-	-	-	-	-	-	-	√
9.5	Nuclear Density Gauge		√	√	√	√	√	√	√	√	√	√	√	-	-
9.6	Non-Nuclear Density Gauge		-	-	-	-	-	-	-	-	-	-	-	-	-
9.7	Cocrete Test Hammar		√	√	√	√	√	√	√	√	√	√	√	-	√
9.8	Coverometer		-	-	-	-	-	-	-	-	-	-	-	-	-
9.9	Ultrasonic Pulse Velocity		-	-	-	-	-	-	-	-	-	-	-	-	-
9.10	Chloride Field Test System for Concrete		-	-	-	-	-	-	-	-	-	-	-	-	-
9.11	Corrosion meter		-	-	-	-	-	-	-	-	-	-	-	-	-
9.12	Surface water absorption tester		-	-	-	-	-	-	-	-	-	-	-	-	-
9.13	Resonance frequency meter		-	-	-	-	-	-	-	-	-	-	-	-	-
9.14	Impact Echo Testing system		-	-	-	-	-	-	-	-	-	-	-	-	-
9.15	Ultrasonic Crosshole Pile Integrity Testing		-	-	-	-	-	-	-	-	-	-	-	-	-
9.16	Crack Width Gauge		-	-	-	-	-	-	-	-	-	-	-	-	-
9.17	Crack Measurement Microscope		-	-	-	-	-	-	-	-	-	-	-	-	-

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