



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

TORCH MATERIAL TESTING LAB

17 INDUSTRIAL AREA GATE 166
DOHA 15673, QATAR

Testing Laboratory TL-900

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 21, 2024



International Accreditation Service
Issued under the authority of IAS management

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TORCH MATERIAL TESTING LAB

www.torch.qa

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Accredited to ISO/IEC 17025:2017

Effective Date June 21, 2024

| Category | Standard/ Method No. / Date | Standard/ Method Title & Section | Location / Facility |
|-----------|--|---|------------------------|
| Aggregate | ASTM C40/C40M-20 | Test Method for Organic Impurities in Fine Aggregates for Concrete | Main Lab |
| Aggregate | ASTM C88/C88M-18 | Test Method for Soundness of Aggregates by Use of Sodium Sulphate or Magnesium Sulphate. | Main Lab |
| Aggregate | ASTM C117-17 | Standard Test Method for Materials Finer than 75-µm (No.200) Sieve in Mineral Aggregates by Washing | Main Lab |
| Aggregate | ASTM C123/C123M-14 | Standard Test Method for Lightweight Particles in Aggregate | Main Lab |
| Aggregate | ASTM C127-15 | Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate | Main Lab |
| Aggregate | ASTM C128-15 | Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate | Main Lab |
| Aggregate | ASTM C131/C131M-20 | Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | Main Lab |
| Aggregate | ASTM C136/C136M-19 | Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates | Main Lab |
| Aggregate | ASTM C142/C142M-17 | Standard test method for clay lumps and friable particles in aggregates | Main Lab |
| Aggregate | ASTM C535-16 | Standard Test Method for Resistance to Degradation of Large Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | Main Lab |
| Aggregate | ASTM C702/C702M-18 | Standard Practice for Reducing Samples of Aggregate to Testing Size | Main Lab |
| Aggregate | ASTM D75/D75M-19 Cl. 5.3.3.1, 5.3.3.2 and 5.3.3.3 only | Standard Practice for Sampling Aggregates | Main Lab |
| Aggregate | ASTM D546-17 | Standard Test Method for Sieve Analysis of Mineral Filler for Asphalt Paving Mixtures | Main Lab |



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|-----------|-----------------------------------|---|------------------------|
| Aggregate | ASTM D4791-19 | Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate | Main Lab |
| Aggregate | ASTM D5821-13(2017) | Percentage of Fractured Particles | Main Lab |
| Aggregate | BS 812-102:1989 | Sampling of Aggregates (From Heaps) | Main Lab |
| Aggregate | BS 812-103.1:1985 Cl. 7.2 | Particle Size Distribution (Wet) | Main Lab |
| Aggregate | BS 812-103.1:1985 Cl. 7.3 | Particle Size Distribution (Dry) | Main Lab |
| Aggregate | BS 812-105.2:1990 | Elongation Index | Main Lab |
| Aggregate | BS 812-109:1990 Sec.6 | Determination of Moisture Content (Oven Drying) | Main Lab |
| Aggregate | BS 812-110:1990 | Determination of Aggregate Crushing Value | Main Lab |
| Aggregate | BS 812-111:1990 | Testing aggregates - Methods for determination of ten per cent fines value (TFV) | Main Lab |
| Aggregate | BS 812-112:1990 | Testing aggregates - Method for determination of aggregate impact value (AIV) | Main Lab |
| Aggregate | BS 812-2:1995 Cl. 5.3 | Particle Density and Water Absorption (All larger than 10mm aggregate) | Main Lab |
| Aggregate | BS 812-2:1995 Cl. 5.4 | Particle Density and Water Absorption (5-40mm aggregate) | Main Lab |
| Aggregate | BS 812-2:1995 Cl. 5.5 | Particle Density and Water Absorption (10mm aggregate and smaller) | Main Lab |
| Aggregate | BS EN 932-1:1997 | Tests for general properties of aggregates. Methods for sampling (ON SITE) | Main Lab |
| Aggregate | BS EN 933-1:2012 | Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method | Main Lab |
| Aggregate | BS EN 933-3:2012 | Tests for Geometrical Properties of Aggregates (Determination of Particle Shape - Flakiness Index) | Main Lab |
| Aggregate | BS EN 933-4:2008 | Tests for geometrical properties of aggregates. Determination of particle shape. Shape index | Main Lab |
| Aggregate | BS EN 933-7:1998 | Determination of Shell Content | Main Lab |
| Aggregate | BS EN 933-9 | Methylene blue test | Main Lab |
| Aggregate | BS EN 1097-2:2020 cl. 5 | Method of determination of resistance to fragmentation (Loss Angeles Abrasion test) | Main Lab |
| Aggregate | BS EN 1097-6:2013 | Determination of Particle Density and Water Absorption | Main Lab |
| Aggregate | BS EN 1367-2:2009 | Tests for thermal and weathering properties of aggregates - Magnesium sulfate test | Main Lab |



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| Aggregate | BS EN 1744-1:2009+A1:2012 cl.12 | Tests for chemical properties of aggregates, Chemical analysis: Determination of Acid Soluble Sulphate Content | Main Lab |
| Aggregate | BS EN 1744-5:2006 | Tests for chemical properties of aggregates. Determination of acid soluble chloride salts | Main Lab |
| Asphalt | ASTM D5 / D5M | Standard Test Method for Penetration of Bituminous Materials | Main Lab |
| Asphalt | ASTM D36 | Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus) | Main Lab |
| Asphalt | ASTM D70 | Standard test method for Density of semi solid bituminous materials (Pycnometer method) | Main Lab |
| Asphalt | ASTM D92-18 | Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester | Main Lab |
| Asphalt | ASTM D140/D140M-16 | Standard Practice for Sampling Asphalt Materials | Main Lab |
| Asphalt | ASTM D979 | Standard Practice for Sampling Bituminous Paving Mixtures | Main Lab |
| Asphalt | ASTM D2041 | Standard Test Method for Theoretical Maximum specific gravity and density of Bituminous Paving Mixtures | Main Lab |
| Asphalt | ASTM D2172 | Standard Test Methods for Quantitative extraction of bitumen from bituminous paving mixture | Main Lab |
| Asphalt | ASTM D2172-17E1 CI 13.2 | Determination of mineral matter by ashing method | Main Lab |
| Asphalt | ASTM D2726/M | Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures | Main Lab |
| Asphalt | ASTM D2995-14 | Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors | Main Lab |
| Asphalt | ASTM D3549 / D3549M | Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens | Main Lab |
| Asphalt | ASTM D4402/D4402M-15 | Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer | Main Lab |
| Asphalt | ASTM D5361/D5361M-16 | Sampling Compacted Asphalt Mixtures for Laboratory Testing | Main Lab |
| Asphalt | ASTM D5444 | Standard Test Method for Mechanical Size Analysis of Extracted Aggregate | Main Lab |



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| Asphalt | ASTM D6926 | Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus | Main Lab |
| Asphalt | ASTM D6927 - 15 | Standard Test Method for Marshall Stability and Flow of Bituminous Mixtures | Main Lab |
| Asphalt | BS EN 12697-13:2017 | Bituminous mixtures. Test methods. Temperature measurement | Main Lab |
| Cementitious Materials | ASTM C109 | Compressive Strength of Cube of Hydraulic Cement Mortars | Main Lab |
| Cementitious Materials | ASTM C187 | Normal Consistency of Cement | Main Lab |
| Cementitious Materials | ASTM C191 | Setting Time by Vicat | Main Lab |
| Cementitious Materials | ASTM C311 Cl.11 | Standard Test Method for Sampling and Testing Fly Ash or Natural Pozzolans for use on Portland Cement Concrete (only clause 11 Chemical Analysis of Moisture Content) | Main Lab |
| Cementitious Materials | ASTM C989 | Compressive strength for Ground Granulated Blast Furnace Slag | Main Lab |
| Cementitious Materials | ASTM C1240 | Pozzolanic Activity Test | Main Lab |
| Cementitious Materials | BS EN 196-1 | Determination of Strength of Cement | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 4.4.2 | Sulphate | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 4.4.3 | Insoluble Residue | Main Lab |
| Cementitious Materials | BS EN 196-2:2013 Cl. 7 | Loss on Ignition | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 13.10 | Ferric Oxide Content | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 13.11 | Aluminum Oxide Content | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 13.14 | Calcium Oxide Content | Main Lab |
| Cementitious Materials | BS EN 196-2 Cl. 13.15 | Magnesium Oxide Content | Main Lab |
| Cementitious Materials | BS EN 196-3 Clause 6 | Determination of Setting Times of Cement | Main Lab |
| Cementitious Materials | BS EN196-3 Clause 7 | Determination of Soundness of Cement | Main Lab |
| Cementitious Materials | BS EN 196-6 | Fineness Test of Cement (clause 4 Air Permeability Method) | Main Lab |
| Cementitious Materials | BS EN 196-7 | Taking and Preparing Samples of Cement | Main Lab |



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| Cementitious Materials | BS EN 196-21:1992 Cl. 4 | Chloride Content | Main Lab |
| Concrete | ASTM C31/C31M-21a | Standard Practice for Making and Curing Concrete Test Specimens in the Field | Main Lab |
| Concrete | ASTM C39/C39M-21 | Compressive Strength of Concrete Cylindrical Specimens | Main Lab |
| Concrete | ASTM C42/C42M-20 | Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete | Main Lab |
| Concrete | ASTM C138/C138M-17a | Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete | Main Lab |
| Concrete | ASTM C143/C143M-20 | Standard Test Method for Slump of Hydraulic-Cement Concrete | Main Lab |
| Concrete | ASTM C172/C172M-17 | Standard Practice for Sampling Freshly Mixed Concrete | Main Lab |
| Concrete | ASTM C231/C231M-17a | Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method | Main Lab |
| Concrete | ASTM C1064/C1064M-17 | Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete | Main Lab |
| Concrete | ASTM C1202: 19 | Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (RCPT) | Main Lab |
| Concrete | BS 1881-122:2011 | Testing concrete. Method for determination of water absorption | Main Lab |
| Concrete | BS 1881 Part124:2015: Clause:12 .1 | Testing concrete. Methods for analysis of hardened concrete: Acid Soluble Chloride in Concrete | Main Lab |
| Concrete | BS 1881 Part 124:2015 Clause:12.2 | Testing concrete. Methods for analysis of hardened concrete Acid Soluble Sulphate in Concrete | Main Lab |
| Concrete | BS 1881-208:1996 | Testing concrete. Recommendations for the determination of the initial surface absorption of concrete | Main Lab |
| Concrete | BS EN 12350-1: 19 | Testing fresh concrete. Sampling | Main Lab |
| Concrete | BS EN 12350-2:19 | Testing fresh concrete. Slump-test | Main Lab |
| Concrete | BS EN 12350-5:19 | Testing Fresh Concrete. Flow table test | Main Lab |
| Concrete | BS EN 12350-6: 19 | Testing fresh concrete. Density | Main Lab |
| Concrete | BS EN 12350-7: 19 | Testing fresh concrete. Air Content (Pressure Method) | Main Lab |
| Concrete | BS EN 12390-1:19 | Testing hardened concrete. Shape, dimensions and other requirements for specimens and moulds | Main Lab |
| Concrete | BS EN 12390-2: 19 | Testing hardened concrete. Making and curing specimens for strength tests | Main Lab |
| Concrete | BS EN 12390-3:19 | Testing hardened concrete. Compressive strength of test specimen | Main Lab |



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| Concrete | BS EN 12390-5 | Testing hardened concrete. Flexural strength of test specimens | Main Lab |
| Concrete | BS EN 12390-7:19 | Testing hardened concrete. Density of hardened concrete | Main Lab |
| Concrete | BS EN 12390-8:19 | Testing hardened concrete. Depth of penetration of water under pressure (Water Penetration Test) | Main Lab |
| Concrete | BS EN 12504-1:2019 | Testing concrete in structures - Cored specimens. Taking, examining and testing in compression | Main Lab |
| Concrete | NT Build 492: 1999-11 | Chloride Migration Coefficient from non-steady-state Migration experiments | Main Lab |
| Environmental | APHA 2320-B | Bicarbonate | Main Lab |
| Environmental | APHA 2320-B | Carbonate | Main Lab |
| Environmental Tests | APHA 4500 H+B | pH Value of water (Electrometric method) | Main Lab |
| Environmental Tests | APHA 9215 E | Heterotrophic plate count (Enzyme substrate Method) | Main Lab |
| Environmental Tests | APHA 9223 B | Escherichia Coli (Enzyme substrate Method) | Main Lab |
| Environmental Tests | APHA 9223 B | Total Coliform (Enzyme substrate Method) | Main Lab |
| Environmental Tests | APHA 9223 B | Determination of Fecal coliform (Enzyme substrate Method) | Main Lab |
| Environmental | APHA/AWWA 2320- B | Phenolphthalein Alkalinity | Main Lab |
| Environmental | APHA/AWWA 2320- B | Total Alkalinity | Main Lab |
| Environmental | APHA/AWWA 2340-C | Total Hardness | Main Lab |
| Environmental | APHA/AWWA 2510-B | Electrical Conductivity | Main Lab |
| Environmental | APHA/AWWA 2540-B | Total Solids | Main Lab |
| Environmental | APHA/AWWA 2540-C | Total Dissolved Solids (TDS) | Main Lab |
| Environmental | APHA/AWWA 2540-D | Total Suspended Solids (TSS) | Main Lab |
| Environmental | APHA/AWWA 3500-Ca B | Calcium | Main Lab |
| Environmental | APHA/AWWA 3500-Mg B | Magnesium Concentration by calculation | Main Lab |
| Environmental | APHA/AWWA 4500-Cl B | Chloride | Main Lab |
| Environmental | APHA/AWWA 4500- SO4 | Sulphate | Main Lab |
| Geotechnical | ASTM D1196/D1196M-21 | Standard Test Method for Nonrepetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements | Main Lab |
| Geotechnical | ASTM D5731-16 | Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications | Main Lab |
| Geotechnical | BS 1377-9 Sec. 4.1 | Plate Load Test | Main Lab |



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| Masonry Blocks & Paving Units | ASTM C140/C140M-21 | Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units (Water Absorption for Interlocks) | Main Lab |
| Masonry Blocks & Paving Units | BS 6717 Annex B | Measurement of Dimensions of Paving Blocks | Main Lab |
| Masonry Blocks & Paving Units | BS 6717 Annex E | Tensile Strength of Paving Blocks | Main Lab |
| Masonry Blocks & Paving Units Tests | BS EN 771-3:2011+A1:2015 | Specification for masonry units - Aggregate concrete masonry units (Dense and lightweight aggregates) (Water Absorption) | Main Lab |
| Masonry Blocks & Paving Units | BS EN 772-1:2011+A1:2015 | Methods of test for masonry units - Determination of compressive strength | Main Lab |
| Masonry Blocks & Paving Units | BS EN 1338:2003 Annex E | Water Absorption for Paving Blocks | Main Lab |
| Masonry Blocks & Paving Units | BS EN 1338 Annex F | Tensile Strength of Paving Blocks | Main Lab |
| Masonry Blocks & Paving Units | BS EN 1339:2003 Appendix E | Water Absorption for Concrete Paving Flags / Slabs | Main Lab |
| Masonry Blocks & Paving Units | BS EN 1340:2003 Annex C | Measurement of Dimensions of Kerbs | Main Lab |
| Masonry Blocks & Paving Units | BS EN 1340:2003 Annex E | Water Absorption for Kerbs | Main Lab |
| Microbiology | APHA 9221 B | Determination of Total Coliform (Multiple Tube Fermentation Technique) | Main Lab |
| Microbiology | APHA 9221 E | Determination of Fecal Coliform (Multiple Tube Fermentation Technique) | Main Lab |
| Microbiology | APHA 9221 F | Determination of Escherichia Coli (Multiple Tube Fermentation Technique) | Main Lab |
| Non-Destructive Test | ASTM C805/C805M-18 | Standard Test Method for Rebound Number of Hardened Concrete | Main Lab |
| Non-Destructive Test | ASTM D4541-17 | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers | Main Lab |
| Non-Destructive Test | ASTM E1703/E1703M-10(2015) | Standard Test Method for Measuring Rut-Depth of Pavement Surfaces Using a Straightedge | Main Lab |



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| Non-Destructive Test | BS 1881-204:1988 | Testing concrete - Recommendations on the use of electromagnetic cover meters | Main Lab |
| Non-Destructive Test | BS EN 12504-2:2021 | Testing concrete in structures - Non-destructive testing. Determination of rebound number | Main Lab |
| Non-Destructive Test | BS EN 12504-4:2021 | Testing concrete in structures - Determination of ultrasonic pulse velocity | Main Lab |
| Non-Destructive Test | Gauge Manual | Crack Width Gauge | Main Lab |
| Non-Destructive Test | Microscope Manual | Crack Measurement Microscope | Main Lab |
| Road & Pavement | ASTM D140/D140M-16 | Standard Practice for Sampling Asphalt Materials | Main Lab |
| Road & Pavement | ASTM D5361/D5361M-16 | Sampling Compacted Asphalt Mixtures for Laboratory Testing | Main Lab |
| Soil | ASTM D1140 | Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing | Main Lab |
| Soil | ASTM D1556 | Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method | Main Lab |
| Soil | ASTM D1557 | Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort {56,000 ft-lbf/ft ³ (2,700 kN-m/m ³)} | Main Lab |
| Soil | ASTM D1883 | Standard Test Method for CBR (California Bearing Ratio) of Laboratory -Compacted Soils | Main Lab |
| Soil | ASTM D2216 | Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass | Main Lab |
| Soil | ASTM D2419 | Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate | Main Lab |
| Soil | ASTM D2974 | Determination of Organic Material of Peat and the Other Organic Soils | Main Lab |
| Soil | ASTM D4318 | Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils | Main Lab |
| Soil | ASTM D4718 | Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles | Main Lab |



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| Soil | ASTM D4944-18 | Standard Test Method for Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Gas Pressure Tester | Main Lab |
| Soil | ASTM D6913 | Standard Test Methods for Particle- Size Distribution (Gradation) of Soils Using Sieve Analysis | Main Lab |
| Soil | BS 1377-2:1990 Sec. 3.2 | Determination of Moisture Content (Oven Drying) | Main Lab |
| Soil | BS 1377-2:1990 Sec. 4.3 | Determination of Liquid Limi (Cone Penetrometer) | Main Lab |
| Soil | BS 1377-2:1990 Sec. 4.5 | Determination of Liquid Limit (Casagrande Method) | Main Lab |
| Soil | BS 1377-2:1990 Sec. 5 | Determination of Plastic Limit and Plasticity Index | Main Lab |
| Soil | BS 1377-2:1990 Sec. 9.2 | Particle Size Distribution (Wet Sieving Method) | Main Lab |
| Soil | BS 1377-2:1990 Sec. 9.3 | Particle Size Distribution (Dry Sieving Method) | Main Lab |
| Soil | BS 1377-3: Sec. 5.2 | Determination of Acid Soluble Sulphate Content | Main Lab |
| Soil | BS 1377-3: clause 7.1/ 7.3 / 7.6 | Methods of test of soils for civil engineering purposes. Chemical and electrochemical tests: Determination of water soluble sulphate | Main Lab |
| Soil | BS 1377-3: Sec. 8.3 | Determination of Carbonate Content | Main Lab |
| Soil | BS 1377-3: Sec. 9.2: 18 | Methods of test of soils for civil engineering purposes. Chemical and electrochemical tests: Determination of water soluble chloride | Main Lab |
| Soil | BS 1377-3: clause 9.3 | Methods of test of soils for civil engineering purposes. Chemical and electrochemical tests: Determination of Acid Soluble Chloride Content | Main Lab |
| Soil | BS 1377-3: clause 12 | Determination of pH values of soil | Main Lab |
| Soil | BS 1377-3:1990 Sec. 3 | Determination of Organic Matter Content | Main Lab |
| Soil | BS 1377 Part 4: Sec.3.5/3.6 | Dry Density/Moisture Content Relationship | Main Lab |
| Soil | BS EN 933-8:2012+A1:2015 | Tests for geometrical properties of aggregates - Assessment of fines. Sand equivalent test | Main Lab |

