



CERTIFICATE OF ACCREDITATION

This is to attest that

UNIVERSAL LABORATORIES COMPANY W L L

OFFICE: AL MUNTAZA TRADING CENTER, BUILDING NO.16(2), ZONE 24, STREET 830, DOHA, QATAR
LABORATORY: BUILDING 21, ZONE 74, STREET 27, AL KHOR INDUSTRIAL AREA, 5966, STATE OF QATAR

Testing Laboratory TL-867

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 December 20, 2023



A handwritten signature in black ink that reads 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

UNIVERSAL LABORATORIES COMPANY W L L

Contact Name Parveen Paika

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Accredited to ISO/IEC 17025:2017

Effective Date December 20, 2023

Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Aggregate	ASTM C29/C29M	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM C117	Standard test method for material finer than 75µm in mineral Aggregate by washing sieve	Street 27, Al Khor Industrial Area
Aggregate	ASTM C123/C123M	Standard Test Method for Light Weight Particles in Aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM C127	Standard test method for relative density specific gravity) and Absorption Coarse Aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM C128 Cl 9.2	Standard test method for Relative (specific gravity) and Absorption of Fine Aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM C131/C131M	Standard test method for resistance to degradation of small size coarse aggregate by abrasion and impact in the Loss Angeles machine	Street 27, Al Khor Industrial Area
Aggregate	ASTM C136/C136M	Standard test method for sieve analysis of fine and coarse aggregates	Street 27, Al Khor Industrial Area
Aggregate	ASTM C142/C142M	Standard test method for Clay Lumps and Friable Particles in aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM C 535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Street 27, Al Khor Industrial Area
Aggregate	ASTM C702/C702M	Standard practice for Reducing Samples of Aggregate to Testing Size	Street 27, Al Khor Industrial Area
Aggregate	ASTM D4791	Standard test method for flat particle, Elongated particle, or flat and Elongated particles in coarse Aggregate	Street 27, Al Khor Industrial Area
Aggregate	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	Street 27, Al Khor Industrial Area
Aggregate	BS 812-110	Testing aggregate. Part 110: Method for determination of Aggregate Crushing Value (ACV)	Street 27, Al Khor Industrial Area

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Aggregate	BS 812-111	Testing aggregate. Part 111: Method for determination of ten percentage fine value (TFV)	Street 27, Al Khor Industrial Area
Aggregate	BS 1097-5	Test for mechanical and physical property of aggregate. Part 5: Determination of the water content by drying in a ventilated Drying Oven	Street 27, Al Khor Industrial Area
Aggregate	BS 1367-4	Tests for Thermal and Weathering Properties of Aggregates Part 4: Determination of Drying Shrinkage	Street 27, Al Khor Industrial Area
Aggregate	BS EN 932-1	Tests for general properties of aggregates Part 1. Methods for sampling	Street 27, Al Khor Industrial Area
Aggregate	BS EN 932-2	Test for general properties of aggregate. part:2 Methods for Reducing Laboratory Samples	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-1	Tests for geometrical properties of aggregate part:1 determination of particles size distribution- sieving method	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-1 CI 7.1	Tests for geometrical properties of aggregate part:1 determination of particles size distribution- sieving method (Material Finer than 0.063mm)	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-3	Test for geometrical properties of aggregate part:3 determination of particle shape-flakiness index	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-4	Test for geometrical properties of aggregate part:4 determination of particle shape- Shape Index	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-7	Test for geometrical properties of aggregate part:7 determination of content percentage of shells in coarse aggregate	Street 27, Al Khor Industrial Area
Aggregate	BS EN 933-8 + A1	Tests for geometrical properties of aggregates Part 8: Assessment of fines - Sand equivalent test	Street 27, Al Khor Industrial Area
Aggregate	BS EN 1097-2 CI 1 to 5	Test for geometrical properties of aggregate part:2 method for the determination of resistance to fragmentation	Street 27, Al Khor Industrial Area
Aggregate	BS EN 1097-6 CI 8 & CI 9	Test for mechanical and physical properties of aggregate part:6 determination of particles density and water absorption	Street 27, Al Khor Industrial Area
Asphalt	ASTM D5/D5M	Test Method for Penetration of Bituminous Materials	Street 27, Al Khor Industrial Area
Asphalt	ASTM D36/D36M	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	Street 27, Al Khor Industrial Area
Asphalt	ASTM D70	Standard Test Method for Density of Semi-Solid Asphalt Binder (Pycnometer Method)	Street 27, Al Khor Industrial Area

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Asphalt	ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Street 27, Al Khor Industrial Area
Asphalt	ASTM D979/D979M	Standard Practice for Sampling Bituminous Paving Mixtures	Street 27, Al Khor Industrial Area
Asphalt	ASTM D2041/D2041M CI 9.5.2	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	Street 27, Al Khor Industrial Area
Asphalt	ASTM D2172/D2172M	Standard Test Methods for Quantitative Extraction of Bitumen from Bituminous Paving Mixtures.	Street 27, Al Khor Industrial Area
Asphalt	ASTM D2726/D2726M	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	Street 27, Al Khor Industrial Area
Asphalt	ASTM D2995	Standard Practice for estimating application rate of bituminous distributor, Rate of Application	Street 27, Al Khor Industrial Area
Asphalt	ASTM D3203/D3203M	Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures	Street 27, Al Khor Industrial Area
Asphalt	ASTM D3549/D3549M	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	Street 27, Al Khor Industrial Area
Asphalt	ASTM D5361/D5361M	Sampling Compacted Bituminous Asphalt Mixtures for Laboratory Testing	Street 27, Al Khor Industrial Area
Asphalt	ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate	Street 27, Al Khor Industrial Area
Asphalt	ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	Street 27, Al Khor Industrial Area
Asphalt	ASTM D6927	Standard Test Method for Marshall Stability and Flow of Bituminous Asphalt Mixtures	Street 27, Al Khor Industrial Area
Asphalt	BS EN 12697-13 CI 4.1	Bituminous mixtures - Test methods - Part 13: Temperature measurement	Street 27, Al Khor Industrial Area
Concrete	ASTM C39/C39M	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	Street 27, Al Khor Industrial Area
Concrete	ASTM C42/C42M	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete, Clause: 6 Measuring the Length of Drilled Cores, Clause: 7 Cores for Compressive Strength	Street 27, Al Khor Industrial Area
Concrete	ASTM C138/C138M	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	Street 27, Al Khor Industrial Area
Concrete	ASTM C231/C231M CI 8.3	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	Street 27, Al Khor Industrial Area

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Concrete	ASTM C805/C805M	Standard Test Method for Rebound Number of Hardened Concrete	Street 27, Al Khor Industrial Area
Concrete	ASTM C1611/C1611M	Standard Test Method for Slump Flow of Self-Consolidating Concrete	Street 27, Al Khor Industrial Area
Concrete	BS 1881-122	Testing Concrete: Part 122: Method for Determination of Water Absorption	Street 27, Al Khor Industrial Area
Concrete	BS EN 772-1 + A1 Exclude: Cl 7.2.5 & Cl 7.3.4	Methods of test for masonry units Part 1: Determination of compressive strength	Street 27, Al Khor Industrial Area
Concrete	BS EN 772-11	Methods of test for masonry units Part 11: Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	Street 27, Al Khor Industrial Area
Concrete	BS EN 772-16	Methods of test for masonry units Part 16: Determination of dimensions	Street 27, Al Khor Industrial Area
Concrete	BS EN 1338 Annex C (normative)	Concrete paving blocks - Requirements and test methods-Measurement of the dimensions of a single block	Street 27, Al Khor Industrial Area
Concrete	BS EN 1338 Annex E (normative)	Concrete paving blocks - Requirements and test methods- Determination of total water absorption	Street 27, Al Khor Industrial Area
Concrete	BS EN 1338 Annex F (normative)	Concrete paving blocks - Requirements and test methods -Measurement of tensile splitting strength	Street 27, Al Khor Industrial Area
Concrete	BS EN 1339 Annex C (normative)	Concrete Paving Flags– Requirements and Test Methods Annex C (Normative) Measurement of the Dimensions of a Single Flag	Street 27, Al Khor Industrial Area
Concrete	BS EN 1339 Annex E (normative)	Concrete Paving Flags– Requirements and Test Methods Annex E (Normative)Determination of Total Water Absorption	Street 27, Al Khor Industrial Area
Concrete	BS EN 1339 Annex F (normative)	Concrete Paving Flags– Requirements and Test Methods Annex F (Normative) Measurement of Bending Strength and Breaking Load	Street 27, Al Khor Industrial Area
Concrete	BS EN 1340 Annex C (normative)	Concrete kerb units - Requirements and test methods- Measurement of dimensions of a single unit	Street 27, Al Khor Industrial Area
Concrete	BS EN 1340 Annex E (normative)	Concrete Kerb Units- Requirements and Test Methods Annex E (Normative) Determination of Total Water Absorption	Street 27, Al Khor Industrial Area

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Concrete	BS EN 1340 Annex F (normative)	Concrete kerb units - Requirements and test methods- Measurement of bending strength	Street 27, Al Khor Industrial Area
Concrete	BS EN 12350-1	Testing fresh concrete Part 1: Sampling	Street 27, Al Khor Industrial Area
Concrete	BS EN 12350-2	Testing fresh concrete Part 2: Slump-test	Street 27, Al Khor Industrial Area
Concrete	BS EN 12390-1	Testing hardened concrete Part 1: Shape and dimension	Street 27, Al Khor Industrial Area
Concrete	BS EN 12390-2	Testing hardened concrete Part 2: Making and curing specimens for strength tests	Street 27, Al Khor Industrial Area
Concrete	BS EN 12390-3	Testing hardened concrete Part 3: Compressive strength of test specimens	Street 27, Al Khor Industrial Area
Concrete	BS EN 12390-5	Testing hardened concrete Part 5: Flexural strength of test specimens	Street 27, Al Khor Industrial Area
Concrete	BS EN 12390-7	Testing hardened concrete Part 7: density of hardened concrete	Street 27, Al Khor Industrial Area
Concrete	CML Method 9-97	Standard test method for Determination of water absorption of precast concrete paving blocks	Street 27, Al Khor Industrial Area
Soil	ASTM D75/D75M	Standard Practice for Sampling Aggregates	Street 27, Al Khor Industrial Area
Soil	ASTM D1140 Cl 10.2	Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No.200) Sieve in Soils by Washing	Street 27, Al Khor Industrial Area
Soil	ASTM D1556/D1556M	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	Street 27, Al Khor Industrial Area
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))	Street 27, Al Khor Industrial Area
Soil	ASTM D1883	Standard Test Method for California Bearing Ratio (CBR) of Laboratory- Compacted Soils	Street 27, Al Khor Industrial Area
Soil	ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	Street 27, Al Khor Industrial Area
Soil	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	Street 27, Al Khor Industrial Area
Soil	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils	Street 27, Al Khor Industrial Area

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Soil	ASTM D4718/D47418M	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles	Street 27, Al Khor Industrial Area
Soil	ASTM D6913/D6913M	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	Street 27, Al Khor Industrial Area
Soil	ASTM D7012	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperature	Street 27, Al Khor Industrial Area
Soil	BS 1377-1	Methods of test for soils for civil engineering purposes – Part 1: General requirements and sample preparation	Street 27, Al Khor Industrial Area
Soil	BS 1377-2:1990 Clause 3.2	Methods of Test for Soils for Civil Engineering Purposes— Part 2: Classification Tests- Clause 3.2- Determination of Moisture Content by Oven Drying Method	Street 27, Al Khor Industrial Area
Soil	BS 1377-2:1990 Clause 4.5	Methods of Test for Soils for Civil Engineering Purposes— Part 2: Classification Tests- Clause. 4.5- Determination of The Liquid Limit by Casagrande Apparatus Method	Street 27, Al Khor Industrial Area
Soil	BS 1377-2:1990 Clause 5.3 & 5.4	Methods of Test for Soils for Civil Engineering Purposes— Part 2: Classification Tests- Clause 5.3 & 5.4 – Determination of The Plastic Limit and Plasticity Index	Street 27, Al Khor Industrial Area
Soil	BS 1377-2:1990 Clause 9.2	Methods of Test for Soils for Civil Engineering Purposes— Part 2: Classification Tests CL 9.2 Determination of Particle Size Distribution by Using Wet Sieving Method	Street 27, Al Khor Industrial Area
Soil	BS 1377-2:1990 Clause 9.3	Methods of Test for Soils for Civil Engineering Purposes— Part 2: Classification Tests CL 9.3 Determination of Particle Size Distribution by Using Dry Sieving Method	Street 27, Al Khor Industrial Area
Soil	BS 1377-4:1990 Clause 3.5	Methods of Test for Soils for Civil Engineering Purposes— Part 4: Compaction – Related Tests – Clause 3.5 Determination of Dry Density/Moisture Content Relationship by Method Using 4.5kg Rammer for Soils with Particles Up to Medium – Gravel Size	Street 27, Al Khor Industrial Area
Soil	BS 1377-4:1990 Clause 3.6	Methods of Test for Soils for Civil Engineering Purposes— Part 4: Compaction –Related Tests – CL 3.6 Determination of Dry Density/Moisture Content Relationship by Method Using 4.5kg Rammer for Soils with Some Coarse Gravel –Size Particles	Street 27, Al Khor Industrial Area

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Specifications	API 1104	Welding of Pipelines and Related Facilities - Tensile Test, Bend Test, Impact Test, Nick Break Test, Macro Test and Hardness; Clauses 5.6, 5.8, 6.5, 10.3.6, 10.4, 12.6, 12.7, Annex-A Clause 3.4, 3.4.1, 3.4.2., Annex-B Clause 2.5, 3.0, 7.1.3. only	27 th Street, Al Khor
Specifications	ASME BPVC Section IX	Welding, brazing and fusion qualifications; Tensile Test, Bend Test, Fracture Test, Peel Test and Macro/Sectioning Test: Clauses QW-140, 150, 160, 170, 180, 192, 193, 196, 197, 450, 462, & QB-140, 150, 160, 170, 180, 450, 452, 463 & 466 only.	27 th Street, Al Khor
Specifications	ASTM A416 / 416M	Standard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete	27 th Street, Al Khor
Specifications	AWS D1.1 Sec 4	Structural Welding Code (Tensile Test, Bend Test, Fracture Test)	27 th Street, Al Khor
Steel	ASTM A370	Standard Test Methods & Definitions for Mechanical Testing of Steel Products (Tensile Test, Bend Test, Hardness Test, Charpy Impact Test) - Except Cl. 19	27 th Street, Al Khor
Steel	ASTM A384	Standard test methods for micro indentation hardness of material	27 th Street, Al Khor
Steel	ASTM A931	Standard Test Method for Tension Testing of Wire Ropes and Strand	27 th Street, Al Khor
Steel	ASTM A1061	Standard Test Methods for Testing Multi-Wire Steel Strand	27 th Street, Al Khor
Steel	ASTM B557	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products	27 th Street, Al Khor
Steel	ASTM E10	Brinell Hardness of Metallic Materials	27 th Street, Al Khor
Steel	ASTM E18	Rockwell Hardness of Metallic Materials	27 th Street, Al Khor
Steel	ASTM E23	Standard Test Methods for Notched Bar Impact testing of Metallic Materials (Impact Test)	27 th Street, Al Khor
Steel	ASTM E92	Standard Test Method for Vickers Hardness & Knoop Hardness of Metallic Materials (Hardness Test)	27 th Street, Al Khor
Steel	ASTM E190	Standard Test Method for Guided Bend test for Ductility of welds (Bend Test)	27 th Street, Al Khor
Steel	ASTM E290	Standard Test Methods for Bend testing of Materials for Ductility (Bend Test)	27 th Street, Al Khor
Steel	ASTM E340	Macroetching Metals and Alloys	27 th Street, Al Khor

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Steel	ASTM F606	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (Proof load testing of bolts)	27 th Street, Al Khor
Steel	BS 4449 Sec. 7.2.5	Specification for Carbon steel bars for the reinforcement of concrete (Bend Test & Rebend Test)	27 th Street, Al Khor
Steel	BS EN 10002- 1	Metallic material-Tensile Strength Test-Part 1: Method of test at ambient temperature	27 th Street, Al Khor
Steel	BS EN 10045-1	Charpy impact test on metallic materials -Part 1: Test method (V-and U-notches)	27 th Street, Al Khor
Steel	BS EN ISO 148-1	Metallic materials- Charpy pendulum impact test- test method	27 th Street, Al Khor
Steel	BS EN ISO 5173	Destructive tests on welds in metallic materials — Bend tests	27 th Street, Al Khor
Steel	BS EN ISO 6506-1	Metallic materials- Brinell hardness test-test method	27 th Street, Al Khor
Steel	BS EN ISO 6507-1	Metallic materials- Vickers hardness test- test methods	27 th Street, Al Khor
Steel	BS EN ISO 6508-1	Metallic materials- Rockwell hardness test- test methods	27 th Street, Al Khor
Steel	BS EN ISO 6892-1	Metallic material- Method of test at room temperature	27 th Street, Al Khor
Steel	BS EN ISO 9017	Destructive tests on welds in metallic materials — Fracture test	27 th Street, Al Khor
Steel	BS EN ISO 15630-1	Steel for the reinforcement and prestressing of concrete- Test methods- Part 1: Reinforcing bars, wire rod and wire (Tensile Test, Bend Test & Rebend Test)	27 th Street, Al Khor
Steel	BS EN ISO 15630-3	Steel for the reinforcement and prestressing of concrete — Test methods — Part 3: Prestressing steel (Tensile Test, Bend Test & Reverse Bend Test)	27 th Street, Al Khor