



CERTIFICATE OF ACCREDITATION

This is to attest that

ITCO LAB

WEST OF ABU FATIRA, AL-HERAFIA, BLOCK 1, PLOT 331
STATE OF KUWAIT

Testing Laboratory TL-712

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 October 20, 2021



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ITCO LAB

Contact Name Mr. Jamal Rateb Al Berni

Contact Phone +965-99134161

Accredited to ISO/IEC 17025:2017

Effective Date October 20, 2021

CMT	
AASHTO T230	Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures
ASTM A416	Standard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete
ASTM A615/A615M	Standard specification for deformed and plain carbon
ASTM C29	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C39/C39M	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C40	Organic Impurities
ASTM C42	Standard test method for obtaining and testing drilled cores and sawed beams of concrete
ASTM C78/C78M	Standard test method for flexural strength of concrete (using simple beam with third-point loading)
ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate ¹ (Fine Aggregate & Coarse Aggregate)
ASTM C97	Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C99	Modulus of Rupture of Dimension Stone
ASTM C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C117	Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C140/C140M	Standard test methods for sampling and testing concrete masonry units and related units
ASTM C142	Clay Lumps and Friable Particles in Aggregates
ASTM C151	Autoclave Expansion for Hydraulic Cement

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ASTM C170	Compressive Strength of Dimension Stone
ASTM C191	Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C204	Fineness of Hydraulic Cement by Air-Permeability Apparatus
ASTM C241	Abrasion Resistance of Stone Subjected to Foot Traffic
ASTM C293/C293	Standard test method for flexural strength of concrete (using simple beam with center-point loading)
ASTM C348	Flexural Strength of Hydraulic-Cement Mortars
ASTM C403	Time of Setting of Concrete Mixtures by Penetration Resistance
ASTM C496	Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C518	Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C597	Standard test method for pulse velocity through concrete
ASTM C642	Density, Absorption, and Voids in Hardened Concrete
ASTM C805/C805M	Standard test method for rebound number of hardened concrete
ASTM C880	Flexural Strength of Dimension Stone
ASTM C1202	Resist Chloride Ion Penetration Test (RCPT) of concrete cubes
ASTM D5	Penetration of Bituminous Materials
ASTM D36	Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D92	Flash and Fire Points by Cleveland Open Cup
ASTM D95	Water in Petroleum Products and Bituminous Materials
ASTM D113	Ductility of Bituminous Materials
ASTM D402	Distillation of Cutback Asphaltic (Bituminous) Products
ASTM D854	Standard test methods for specific gravity of soil solids by water pycnometer
ASTM D977	Emulsified Asphalt
ASTM D1140	Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1194	Bearing Capacity of Soil for Static Load and Spread Footings
ASTM D1556/D1556M	Standard test method for density and unit weight of soil in place by sand-cone method
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))
ASTM D1586	Standard test method for standard penetration test (SPT) and split-barrel sampling of soils
ASTM D1883	Standard test method for California bearing ratio (CBR) of laboratory-compacted soils
ASTM D2027	Standard Specification for Cutback Asphalt (Medium-Curing Type) excluding ASTM D 2171

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ASTM D2041	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2042	Solubility of Asphalt Materials in Trichloroethylene
ASTM D2170	Kinematic Viscosity of Asphalts (Bitumens)
ASTM D2172	Quantitative Extraction of Bitumen From Bituminous Paving Mixtures
ASTM D2419	Standard test method for sand equivalent value of soils and fine aggregate
ASTM D2726	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D3080/D3080M	Standard test method for direct shear test of soils under consolidated drained conditions
ASTM D3143	Flash Point of Cutback Asphalt with Tag Open-Cup Apparatus
ASTM D3203	Percent Air Voids in Compacted Asphalt Mixtures
ASTM D3282	Standard practice for classification of soils and soil-aggregate mixtures for highway construction purposes
ASTM D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D4253	Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
ASTM D4254	Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density
ASTM D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
ASTM D4429	CBR (California Bearing Ratio) of Soils in Place
ASTM D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D4867	Effect of Moisture on Asphalt Concrete Paving Mixture
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
ASTM D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate
ASTM D6084	Elastic Recovery of Bituminous Materials by Ductilometer
ASTM D6913 / BS 1377-2	Standard test method for particle-size analysis of soils
ASTM D6926	Preparation of Bituminous Specimens Using Marshall Apparatus
ASTM D6927	Marshall Stability and Flow of Bituminous Mixtures
ASTM D6930	Settlement and Storage Stability of Emulsified Asphalts
ASTM D6931	Indirect Tensile (IDT) Strength of Asphalt Mixture
ASTM D6933	Oversized Particles in Emulsified Asphalts (Sieve Test)
ASTM D6934	Residue by Evaporation of Emulsified Asphalt
ASTM D6997	Distillation of Emulsified Asphalt
ASTM D6998	Evaluating Aggregate Coating using Emulsified Asphalts
ASTM D7496	Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer

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ASTM E950	Measuring the Longitudinal Profile of Traveled Surfaces with an Accelerometer Established Inertial Profiling Reference
ASTM E1845	Calculating Pavement Macrotexture Mean Profile Depth
ASTM E1926	Computing International Roughness Index of Roads from Longitudinal Profile Measurements
BS 812-105.1	Methods for determination of particle shape Flakiness index
BS 812-105.2	Methods for determination of particle shape Elongation index of coarse aggregate
BS 812-Part 110	Methods for determination of aggregate crushing value (ACV)
BS 812-Part 111	Methods for determination of ten per cent fines value (TFV)
BS 812-Part 112	Aggregate Impact Value
BS 1377-2	Standard test method for particle-size analysis of soils
BS 1377-9	Bearing Capacity of Soil for Static Load and Spread Footings
BS 1881-116	Compressive strength of block cube
BS 1881-122	Density, Absorption, and Voids in Hardened Concrete
BS 1881-202	Testing concrete – part 202: recommendations for surface hardness testing by rebound hammer
BS 1881-203	Testing concrete - part 203: recommendations for measurement of velocity of ultrasonic pulses in concrete
BS 1881-208	Initial surface absorption test (ISAT) of concrete cubes
BS 4449	Steel for the reinforcement of concrete - weldable reinforcing steel - bar, coil and decoiled product - specification
BS EN1338:2003	Abrasion Resistance for Concrete Tiles (Terrazzo - Paving Tiles - Interlock Tiles-Kerbs) by Rotating disc 70mm thickness - Sample Size (15 x 15)cm
BS EN1338:2003	Abrasion Resistance for Concrete Tiles (Terrazzo - Paving Tiles - Interlock Tiles-Kerbs) by Bohme - Sample Size (70x70)mm
BS EN 12390-8	Concrete Water Impermeability
DIN 1048- Part 5	Concrete Water Impermeability
ISO 6935-02	Steel for the reinforcement of concrete