



CERTIFICATE OF ACCREDITATION

This is to attest that

ACES KUWAIT FOR GEOTECHNICAL INVESTIGATION AND ENGINEERING MATERIALS TESTING

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MUBARAK AL KABEER, WEST OF ABU FATIRA AL HERAFIA, BLOCK- 001, BUILDING #298, 47061,
STATE OF KUWAIT

Testing Laboratory TL-1088

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 16, 2023



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

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ACES KUWAIT FOR GEOTECHNICAL INVESTIGATION AND ENGINEERING MATERIALS TESTING

www.aces-int.com

Contact Name Hussam Ismail

Contact Phone +965 98091090

Accredited to ISO/IEC 17025:2017

Effective Date October 16, 2023

Aggregate	
AASHTO T304	Standard Test Methods for (Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading))
ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C117	Standard Test Method for Material Finer Than 75- μ m (No.200) Sieve in Mineral Aggregate by Washing
ASTM C127	Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine ¹
ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates (Particle Size Distribution)
ASTM C142/C142M	Standard Test Method for Clay Lumps and Friable Particles in Aggregates (Clay Lumps and Friable Particles in Aggregates)
ASTM C702	Standard Practice for Reducing Aggregate Sample
ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine ¹
ASTM C1252	Standard Test Methods for (Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading))
ASTM D75	Standard Practice for Sampling Aggregate
ASTM D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer
ASTM D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate
BS 812-110	Testing aggregates (Methods Determination of Aggregate Crushing Value)
Soil	

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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 D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Standard Test Method for (Sand Equivalent Value of Soils and Fine Aggregate)
ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
Asphalt	
AASHTO PP 60	Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC)
AASHTO R35/MS2	Standard Practice for Superpave Volumetric Design for Asphalt Mixtures
AASHTO R47	Standard Practice for Reducing Samples of Hot Mix Asphalt (HMA) to Testing Size
AASHTO R83	Standard Practice for Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC)
AASHTO T283	Standard Method of Test Resistance of Compacted Asphalt Mixtures to Moisture Induced-Damage
AASHTO T312	Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor
AASHTO T324	Standard Method of Test for Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures
ASTM D979	Standard Practice for Sampling Bituminous Paving Mixture
ASTM D2041/D2041M	Standard Test Method for Theoretical Maximum Specific Gravity (G _{mm}) and Density of Bituminous Paving Mixtures
ASTM D2172	Quantitative Extraction of Bitumen From Bituminous Paving Mixtures
ASTM D2726/D2726M	Standard Test Method for Bulk Specific Gravity (G _{mb}) and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D3203/D3203M	Standard Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549/D3549M	Thickness of Asphalt Specimen
ASTM D4867/D4867M	Standard Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures
ASTM D5361/D5361M	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
ASTM D6925	Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyratory Compactor
ASTM D6926	Standard Practice for Preparation of Bituminous Specimens Using Marshall Apparatus
ASTM D6927	Standard Test Method for Marshall Stability and Flow of Asphalt Mixture
BS EN 12697	Bituminous Mixtures. Test Methods. Sampling
Bitumen	
ASTM D5/D5M	Standard Test Method for Penetration of Bituminous Materials
ASTM D6/D6M	Standard Test Method for Loss on Heating of Oil and Asphaltic Compounds
ASTM D36/D36M	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)

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ASTM D70	Standard Test Method for Specific Gravity And Density of Semi-Solid Asphalt Binder (Pycnometer Method)
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D113	Standard Test Method for Ductility of Bituminous Materials
ASTM D140/D140M	Standard Practice for Sampling Asphalt Materials
ASTM D2042	Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
ASTM D2872	Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)
ASTM D4402/D4402M	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer
ASTM D6521	Standard Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
ASTM D6648	Standard Test Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
ASTM D7173	Standard Practice for Determining the Separation Tendency of Polymer from Polymer-Modified Asphalt
ASTM D7175	Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
ASTM D7405	Standard Test Method for Multiple Stress Creep and Recovery (MSCR) of Asphalt Binder Using a Dynamic Shear Rheometer
PWA Test Method 100	Method of Test for Sieve Test of Asphalt Binder
Prime Coat	
ASTM D95	Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D402/D402M	Standard Test Method for Distillation of Cutback Asphalt
ASTM D2170/D2170M	Standard Test Method for Kinematic Viscosity of Asphalts
Tack Coat	
ASTM D88	Standard Test Method for Saybolt Viscosity
ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
ASTM D6930	Standard Test Method for Settlement and Storage Stability of Emulsified Asphalts
ASTM D6933	Standard Test Method for Oversized Particles in Emulsified Asphalts (Sieve Test)
ASTM D6935	Standard Test Method for Determining Cement Mixing of Emulsified Asphalt
ASTM D6997	Standard Test Method for Distillation of Emulsified Asphalt
ASTM D7402	Standard Practice for Identifying Cationic Emulsified Asphalts
Concrete	
BS EN 12350-1	Testing Fresh Concrete (Sampling of Fresh Concrete)
BS EN 12350-2	Testing Fresh Concrete (Slump Test of Fresh Concrete)
BS EN 12350-6	Testing Fresh Concrete (Density)
BS EN 12390-1	Shape and Dimensions of Specimen
BS EN 12390-2	Making and Curing Specimens for Strength Tests
BS EN 12390-3	Compressive Strength of Test Specimens
BS EN 12390-7	Density of Hardened Concrete
Pavement	
ASTM D5340	Standard Test Method for Airport Pavement Condition Index Surveys

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ASTM D6433	Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys
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