



CERTIFICATE OF ACCREDITATION

This is to attest that

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES - KSA

STREET 4 - IBIN SINA
AL-KHOBAR 21351, SAUDI ARABIA

Testing Laboratory TL-788

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 February 5, 2024



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

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES - KSA

www.acts-int.com

Contact Name Shohel Rana

Contact Phone +966-539758610

Accredited to ISO/IEC 17025:2017

Effective Date February 5, 2024

Aggregate	
AASHTO T304	Standard Method of Test for Uncompacted Void Content of Fine Aggregate
ASTM C25	Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime
ASTM C29	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete
ASTM C117	Standard test method for materials finer than 75- μ m (# 200) sieve in mineral aggregates 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
ASTM C136	Standard test method for sieve analysis of fine and coarse aggregates
ASTM C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size
ASTM D75	Standard Practice for Sampling Aggregates
ASTM D692	Standard Specification for Coarse Aggregate for Asphalt Paving Mixtures
ASTM D4791	Standard Test Method for 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 EN 1744-1	Tests for chemical properties of aggregates - Chemical analysis

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BS EN 1744-5	Tests for chemical properties of aggregates - Determination of acid soluble chloride salts
Asphalt	
AASHTO R 66	Standard Practice for Sampling Asphalt Materials
AASHTO T 44	Standard Method of Test for Solubility of Bituminous Materials
AASHTO T49	Standard Method of Test for Penetration of Bituminous Materials
AASHTO T 55	Standard Method of Test for Water in Petroleum Products and Bituminous Materials by Distillation
AASHTO T78	Standard Method of Test for Distillation of Cutback Asphalt Products
AASHTO T79	Standard Method of Test for Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93°C
AASHTO T180	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
AASHTO T193	Standard Method of Test for The California Bearing Ratio
ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM D5	Standard Test Method for Penetration of Bituminous Materials
ASTM D36	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D95	Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D1188	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples
ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2042	Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
ASTM D2172	Standard Test Methods for Quantitative Extraction of Bitumen from Bituminous Paving Mixtures
ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2489	Standard Practice for Estimating Degree of Particle Coating of Bituminous-Aggregate Mixtures

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ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
ASTM D3203	Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures
ASTM D3549	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens
ASTM D4253	Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
ASTM D4254	Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density
ASTM D4791	Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate
ASTM D6307	Standard Test Method for Asphalt Content of Asphalt Mixture by Ignition Method
ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus
ASTM D6927	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures
Concrete	
ASTM C31	Standard practice for making and curing concrete test specimens in the field
ASTM C39	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)
ASTM C138	Unit Weight of Fresh Concrete
ASTM C143	Standard test method for slump of hydraulic-cement concrete
ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
ASTM C173	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C511	Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes

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ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens
ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete
ASTM C1064	Temperature of Freshly Mixed Concrete
ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete
ASTM C1621	Standard Test Method for Passing Ability of Self-Consolidating Concrete by J-Ring
BS 1881-122	Testing concrete - Method for determination of water absorption
BS 1881-124	Testing Concrete - Methods for analysis of hardened concrete
Geotech	
ASTM D4428	Standard Test Methods for Crosshole Seismic Testing
ASTM D5778	Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils
Piles	
ASTM D1143	Standard Test Methods for Deep Foundation Elements Under Static Axial Compressive Load
ASTM D3689	Standard Test Methods for Deep Foundation Elements Under Static Axial Tensile Load
ASTM D4945	Standard Test Method for High-Strain Dynamic Testing of Deep Foundations
ASTM D5882	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations
ASTM D6167	Standard Guide for Conducting Borehole Geophysical Logging: Mechanical Caliper
ASTM D6760	Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing
Soil	
ASTM C142	Standard test method for clay lumps and friable particles in aggregates
ASTM D854	Standard test method for specific gravity of soil solids by water pycnometer
ASTM D1140	Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1194	Standard Test Method for Bearing Capacity of Soil for Static Load and Spread Footings.
ASTM D1195	Standard Test Method for Repetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements

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ASTM D1196	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
ASTM D1556	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 D1883	Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils
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 D2435	Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading
ASTM D2487	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488	Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)
ASTM D2850	Standard Test Method for Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D2974	Standard Test Methods for Determining the Water (Moisture) Content, Ash Content, and Organic Material of Peat and Other Organic Soils
ASTM D3080	Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions
ASTM D3282	Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
ASTM D4373	Standard Test Method for Rapid Determination of Carbonate Content of Soils
ASTM D4972	Standard Test Methods for pH of Soils
ASTM D6913	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7698	Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method

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BS 1377-3	Methods of test for soils for civil engineering purposes - Chemical and electro-chemical testing
Water	
AASHTO T26	Standard Method of Test for Quality of Water to Be Used in Concrete
ASTM D512	Standard Test Methods for Chloride Ion In Water
ASTM D1293	Standard Test Methods for pH of Water
ASTM D5907	Standard Test Methods for Filterable Matter (Total Dissolved Solids) and Nonfilterable Matter (Total Suspended Solids) in Water
Building Envelope	
AAMA 501.2	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Store Fronts, Curtain Walls and Sloped Glazing Systems