



CERTIFICATE OF ACCREDITATION

This is to attest that

ARAB COMPANY FOR LABORATORIES AND SOIL (ACES JUBAIL)

INDUSTRIAL SUPPORT AREA NO. 1, 6668 ROAD
JUBAIL, 70156, KINGDOM OF SAUDI ARABIA

Testing Laboratory TL-915

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.

Expiry Date April 1, 2025
Effective Date January 26, 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.

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ARAB COMPANY FOR LABORATORIES AND SOIL (ACES JUBAIL)

www.aces-int.com

Contact Name Islam Al-Omari

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Accredited to ISO/IEC 17025:2017

Effective Date January 26, 2023

CONSTRUCTION MATERIAL TESTING (CMT)	
Cement	
ASTM C109/C109M	Compressive strength of hydraulic cement mortars
ASTM C143/C143M	Standard test method for slump of hydraulic-cement concrete
ASTM C187	Standard test method for slump of hydraulic-cement concrete
ASTM C188	Density of hydraulic cement
ASTM C191	Time of setting of hydraulic cement by Vicat needle
ASTM C204	Test method for fineness of hydraulic cement by air permeability apparatus
ASTM C511	Standard specification for mixing room, moist cabinets, moist rooms, and water storage tanks used in the testing of hydraulic cements and concretes
BS EN 196-1	Determination of strength
BS EN 413-2	Normal consistency of masonry cement and mortar
Grout	
BS EN 445	Grout for prestressing tendons. Test methods – Bleeding test of grout for prestressing tendons (Method B only)
Aggregate	
ASTM C29/C29M	Standard test method for bulk density (“unit weight”) and voids in Aggregate
ASTM C40	Organic impurities in fine aggregates for concrete
ASTM C88	Standard test method for soundness of aggregates by use of sodium sulfate or magnesium sulfate
ASTM C117	Standard test method for materials finer than 75- μ m (no. 200) sieve in mineral aggregates by washing
ASTM C123/C123M	Standard Test Method for Lightweight Particles in Aggregate

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ASTM C127	Standard test method for relative density (specific gravity) and absorption of coarse aggregate
ASTM C128	Standard test method for relative density (specific gravity) and absorption of fine aggregate
ASTM C131/C131M	Standard test method for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine
ASTM C136/C136M	Standard test method for sieve analysis of fine and coarse aggregates
ASTM C142/C142M	Standard test method for clay lumps and friable particles in aggregates
ASTM C535	Standard test method for resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles machine
ASTM D75/D75M	Standard practice for sampling aggregates
ASTM D2419	Standard test method for sand equivalent value of soils and fine aggregate
ASTM D4791	Standard test method for flat particles, elongated particles, or flat and elongated particles in coarse aggregate
Rocks	
ASTM D2216	Standard test methods for laboratory determination of water (moisture) content of soil and rock by mass
ASTM D5731	Standard test method for determination of the point load strength index of rock and application to rock strength classifications
BS 13383-2:2013	Determination of particle density and water absorption (rock) (Clause 8 only)
BS 13383-2:2019	Armourstone Testing
BS EN 1367-2:2009	Magnesium sulfate test of rock material
BS EN 1926:2006	Rock unconfined compressive strength
BS EN 12390-3:2009	Testing hardened concrete. Compressive strength of test specimens
CIRIA SP83/ CR 154	Rock block integrity – Drop test
CIRIA SP83/ CR 154	Rock grading
CIRIA SP83/ CR 154, A2.3	Rock shape
CIRIA SP83 Appendix 2	Rock – Density & water absorption
Concrete	
ASTM C39/C30M	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C42/C42M	Standard test method for obtaining and testing drilled cores and sawed beams of concrete

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ASTM C94	Standard Specification for Ready-Mixed Concrete
ASTM C140	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
ASTM C172/C172M	Standard practice for sampling freshly mixed concrete
ASTM C173	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C187	Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste
ASTM C231/C231M	Standard test method for air content of freshly mixed concrete by the pressure method
ASTM C617/C617M	Standard practice for capping cylindrical concrete specimens
ASTM C642	Standard test method for density, absorption, and voids in hardened concrete
ASTM C1064/C1064M	Standard test method for temperature of freshly mixed hydraulic cement concrete
BS 1881:1983 Part 107 and 6722-91, BS EN 123050-6:2009	Testing concrete. Method for determination of density of compacted fresh concrete
BS EN 12504-1:2009	Testing concrete in structures. Cored specimens. Taking, examining and testing in compression
Asphalt	
ASTM D1188	Bulk specific gravity and density of compacted bituminous mixtures using coated samples
ASTM D2041/D2041M	Standard test method for theoretical maximum specific gravity and density of bituminous paving mixtures
ASTM D2172/D2172M	Standard test methods for quantitative extraction of bitumen from bituminous paving mixtures
ASTM D2726/D2726M	Standard test method for bulk specific gravity and density of non-absorptive compacted bituminous mixtures
ASTM D3549/D3549M	Standard test method for thickness or height of compacted bituminous paving mixtures specimens
ASTM D4867	Standard Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures
ASTM D6926	Standard practice for preparation of bituminous specimens using Marshall apparatus
ASTM D6927	Standard test method for Marshall stability and flow of asphalt mixtures

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ASTM D6307	Standard Test Method for Asphalt Content of Asphalt Mixture by Ignition Method (Method B only)
BE EN 12697-39:2012	Bituminous mixtures. Test methods for hot mix asphalt. Binder content by ignition (Method B only)
Bitumen	
ASTM D5/D5M-20	Standard Test Method for Penetration of Bituminous
ASTM D36/D36M	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D70/D70M-21	Standard Test Method for Specific Gravity and Density of Semi-Solid Asphalt Binder (Pycnometer Method)
ASTM D92-18	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D113-17	Standard Test Method for Ductility of Asphalt Materials
ASTM D402/ D402M-14	Standard Test Method for Distillation of Cutback Asphalt
ASTM D2042-22	Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
ASTM D4402	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer
Soil	
ASTM D422	Standard test method for particle - size analysis of soils
ASTM D698	Standard test methods for laboratory compaction characteristics of soil using standard effort (12,400 ft-lbf/ ft ³ (600 kN-m/m ³))
ASTM D854	Standard test methods 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 D1556	Standard test method for density and in place by the 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 D2166/D2166M	Standard test method for unconfined compressive strength of cohesive soil
ASTM D2487	Standard test method for CBR (California bearing ratio) of soils in place

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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 D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils ASTM
ASTM D4429	Standard test method for CBR (California bearing ratio) of soils in place
ASTM D4648/D4648M	Standard Test Methods for Laboratory Miniature Vane Shear Test for Saturated Fine-Grained Clayey Soil
ASTM D4719	Standard Test Methods for Prebored Pressure Meter Testing in Soils
ASTM D6938	Standard test methods for in-place density and water content of soil and soil-aggregate by nuclear methods (shallow depth)
ASTM D6951/D6951M	Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications
ASTM D7380	Standard Test Method for Soil Compaction Determination at Shallow Depths Using 5-lb (2.3 kg) Dynamic Cone Penetrometer
BS 1377-2	British Standard methods of test for Soils for Civil Engineering Purposes Part 2. Classification Tests
BS 1377-4	British Standard methods of test for Soils for Civil Engineering Purposes Part 4. Compaction-related Tests
STRUCTURAL	
Piles	
ASTM D1143/D1143M	Standard Test Methods for Deep Foundations Under Static Axial Compressive Load
ASTM D3689/D3689M	Standard Test Methods for Deep Foundations Under Lateral Load
ASTM D3966/D3966M	Standard Test Methods for Deep Foundations Under Lateral Load
ASTM D4428/D4428M	Standard Test Methods for Cross hole Seismic Testing
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
Physical Tests	
BS/ISO 10545-3	Method for determination of water absorption of Ceramic floor tiles

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BS EN ISO 10545-3:1997	Method for Determination of Water absorption of ceramic wall tiles
Environmental (Air)	
BS EN 60079-29-2	Explosive Atmospheres. Gas Detectors, Selection, Installation, Use and Maintenance of Detectors for Flammable Gases and Oxygen <ol style="list-style-type: none"> 1. Nitrogen dioxide NO2 2. Sulfur dioxide SO2 3. Volatile organic compounds VOC 4. Formaldehyde 5. Carbon monoxide CO 6. Carbon dioxide CO2 7. Hydrogen sulfide 8. Particulate matter PM1, PM2.5, PM10 9. Oxygen O2 10. Ozone O3 11. Ammonia
EPA/600/R-14/159	Air Sensor Guidebook <ol style="list-style-type: none"> 1. Nitrogen dioxide NO2 2. sulfur dioxide SO2 3. Volatile organic compounds VOC 4. Carbon monoxide CO 5. Carbon dioxide CO2 6. Hydrogen sulfide 7. Particulate matter PM1, PM2.5, PM10
US EPA 40 CFR 58	Ambient Air Quality Surveillance Siting Criteria for Open Path Analyzers <ol style="list-style-type: none"> 1. Nitrogen dioxide NO2 2. sulfur dioxide SO2 3. Volatile organic compounds VOC 4. Carbon monoxide CO 5. Carbon dioxide CO2 6. Hydrogen sulfide 7. Particulate matter PM1, PM2.5, PM10
US EPA Section 01, 08, 09	Section 01 81 09 Testing for Indoor Air Quality <ol style="list-style-type: none"> 1. Nitrogen dioxide NO2 2. Sulfur dioxide SO2 3. Volatile organic compounds VOC 4. Formaldehyde 5. Carbon monoxide CO 6. Carbon dioxide CO2 7. Hydrogen sulfide 8. Oxygen O2 9. Ozone O3 10. Ammonia
Environmental (Noise)	
ISO 1996	Acoustics: Description, measurement and assessment of environmental noise

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OIL LAB	
ASTM D86-20b	Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
ASTM D92-18	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D93-20	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
ASTM D97-17b	Standard Test Method for Pour Point of Petroleum Products
ASTM D130-19	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D445-21	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
ASTM D482-19	Standard Test Method for Ash from Petroleum Products
ASTM D524-19	Standard Test Method for Ramsbottom Carbon Residue of Petroleum Products
ASTM D877/D877M-19	Standard Test Method for Dielectric Breakdown Voltage of Insulating Liquids Using Disk Electrodes
ASTM D924-15	Standard Test Method for Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Electrical Insulating Liquids
ASTM D971-20	Standard Test Method for Interfacial Tension of Insulating Liquids Against Water by the Ring Method
ASTM D974-21	Standard Test Method for Acid and Base Number by Color-Indicator Titration
ASTM D1169-19a	Standard Test Method for Specific Resistance (Resistivity) of Electrical Insulating Liquids
ASTM D1217-12	Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer
ASTM D1275-15	Standard Test Method for Corrosive Sulfur in Electrical Insulating Liquids
ASTM D1500-17	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
ASTM D1533-20	Standard Test Method for Water in Insulating Liquids by Coulometric Karl Fischer Titration
ASTM D1796-11(2016)	Standard Test Method for Water and Sediment in Fuel Oils by the Centrifuge Method
ASTM D1816-19	Standard Test Method for Dielectric Breakdown Voltage of Insulating Liquids Using VDE Electrodes
ASTM D2500-17a	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels
ASTM D2709-22	Standard Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge
ASTM D2896	Total Base Number (TBN), mgKOH/g

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ASTM D6304-20	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration
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