



CERTIFICATE OF ACCREDITATION

This is to attest that

ARAB COMPANY FOR LABORATORIES AND SOIL – TABUK OFFICE

BUILDING NO. 8030, SALAMAH ALANSARY STREET - AL AKHDAR, DESTINATION, P.O. BOX 47716
TABUK CITY, 47918, SAUDI ARABIA

Testing Laboratory TL-1045

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 May 9, 2024



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

President

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International Accreditation Service, Inc.

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ARAB COMPANY FOR LABORATORIES AND SOIL – TABUK OFFICE

Contact Name Eng. Tariq A. Diab

Contact Phone +966 593179586

Accredited to ISO/IEC 17025:2017

Effective Date May 9, 2024

Conformity Specification	
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
ASTM E543	Standard Specification for Agencies Performing Nondestructive Testing
Concrete and Cement	
AASHTO T277	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (Rapid Chloride Penetration Test)
ACI 207.2	Report on Thermal and Volume Change Effects on Cracking of Mass Concrete
ACI 211.1	Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete
ACI 211.2	Standard Practice for Selecting Proportions for Structural Lightweight Concrete
ACI 211.4	Guide for Selecting Proportions for High-Strength Concrete
ACI 212.3	Report on chemical admixtures for concrete
ACI 214.1 R	Guide to Evaluation of Strength Test Results of Concrete
ACI 214.4 R	Guide for obtaining cores and interpreting compressive strength results
ACI 216.1	Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies
ACI 228.1R	In-Place Methods to Estimate Concrete Strength
ACI 228.2R	Report on Nondestructive Test Methods for Evaluation of Concrete in Structures
ACI 237r	Self-Consolidating Concrete
ACI 301	Specifications for Structural Concrete (Section 8)
ACI 315	Detailing of concrete reinforcement
ACI 318 Chapter 27	Strength Evaluation of Existing Structures
ACI 364.1	guide for assessment of concrete structures before rehabilitation

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ACI 437	Strength Evaluation of Existing Concrete Buildings
ACI 437.1	Load Tests of Concrete Structures Methods, Magnitude, Protocols and Acceptance Criteria
ACI 506.2	Shotcrete Testing
ACI 522r-10	Report on Pervious Concrete
ACI 562	Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures
ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C39	Compressive Strength Test of Concrete Cylinder
ASTM C42	Compressive Strength Test of Concrete core
ASTM C78	Flexural Strength of concrete beams
ASTM C94	Standard Specification for Ready-Mixed Concrete
ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)
ASTM C133	Standard Test Methods for Cold Crushing Strength and Modulus of Rupture of Refractories
ASTM C134	Standard Test Methods for Size, Dimensional Measurements, and Bulk Density of Refractory Brick and Insulating Firebrick
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	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C192	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
ASTM C230	Standard Specification for Flow Table for Use in Tests of Hydraulic Cement
ASTM C231	Air Content of Fresh Concrete
ASTM C232	Standard Test Method for Bleeding of Concrete
ASTM C293	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)
ASTM C403	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
ASTM C469	Static Modulus of Elasticity of Concrete in Compression

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ASTM C490	Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete
ASTM C496	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C511	Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
ASTM C597	Standard Test Method for Pulse Velocity Through Concrete
ASTM C617/C617M	Standard Practice for Capping Cylindrical Concrete Specimens
ASTM C642	Standard Test Method for Density, Absorption, and Voids in Hardened Concrete
ASTM C805	Rebound Number of Hardened Concrete
ASTM C939	Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
ASTM C940	Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory
ASTM C1064	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1140	Standard Practice for Preparing and Testing Specimens from Shotcrete Test Panels
ASTM C1170	Standard Test Method for Determining Consistency and Density of Roller-Compacted Concrete Using a Vibrating Table
ASTM C1176	Standard Practice for Making Roller-Compacted Concrete in Cylinder Molds Using a Vibrating Table
ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (Rapid Chloride Penetration Test)
ASTM C1231	Un-bond cap for cylindrical specimen
ASTM C1293	Standard Test Method for Determination of Length Change of Concrete Due to Alkali-Silica Reaction
ASTM C1435	Standard Practice for Molding Roller-Compacted Concrete in Cylinder Molds Using a Vibrating Hammer
ASTM C1550	Standard Test Method for Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)
ASTM C1556	Standard Test Method for Determining the Apparent Chloride Diffusion Coefficient of Cementitious Mixtures by Bulk Diffusion
ASTM C1583	Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)

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ASTM C1585	Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes
ASTM C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete
ASTM C1609	Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam with Third-Point Loading)
ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete
ASTM C1768	Standard Practice for Accelerated Curing of Concrete Cylinders
BS 1881-122:2011+A1:2020	Method for Determination of Water Absorption of Concrete
BS 1881-204	Testing concrete Recommendations on the use of electromagnetic covermeter
BS 1881-208	Initial Surface Absorption of Concrete
BS 7123	Metal Arc Welding of Steel for Concrete Reinforcement
BS EN 1338	Concrete paving blocks. Requirements and test methods
BS EN 1339	Concrete paving flags. Requirements and test methods
BS EN 12350-1	Testing fresh concrete: Sampling and Common apparatus
BS EN 12350-2	Testing fresh concrete: Slump Test
BS EN 12350-3	Testing fresh concrete : Vebe test
BS EN 12350-5	Testing fresh concrete Flow table test
BS EN 12350-6	Testing fresh concrete: Density
BS EN 12350-7	Testing fresh concrete: Air Content - Pressure Methods
BS EN 12350-8	Testing fresh concrete Self-compacting concrete. Slump-flow test
BS EN 12350-9	Testing fresh concrete. Self-compacting concrete - V funnel test
BS EN 12350-10	Testing fresh concrete Self-compacting concrete. L box test
BS EN 12350-12	Testing fresh concrete Self-compacting concrete. J-ring test
BS EN 12390-3:2019	Compressive strength of test specimen
BS EN 12390-8:2019	Depth of Penetration of Water Under Pressure
BS EN 14488-2	Testing Sprayed Concrete
BS EN 14651	Test method for metallic fiber concrete. Measuring the flexural tensile strength (limit of proportionality (LOP), residual)
BS EN 14721	Test method for metallic fiber concrete. Measuring the fiber content in fresh and hardened concrete

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DIN 1048-part 5	Testing of Hardened Concrete - Clause 7.6 "Water Permeability"
EFNARC 1996	EUROPEAN SPECIFICATION FOR SPRAYED CONCRETE
NT-Build-443	Concrete, hardened_Accelerated chloride penetration (Chloride Diffusion)
NT-Build-492	Chloride Migration Coefficient of Hardened Concrete
RILEM Tc-Tdf 162	Measuring the flexural tensile strength Steel fiber
Cement and Cementitious Additives	
ASTM C109/C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C150	Standard Specification for Portland Cement
ASTM C157	Length Change of Hardened Hydraulic-Cement Mortar and Concrete
ASTM C185	Standard Test Method for Air Content of Hydraulic Cement Mortar
ASTM C188	Density of Hydraulic Cement
ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C204	Standard Test Methods for Fineness of Hydraulic Cement by Air- Permeability Apparatus
ASTM C311	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete
ASTM C430	Standard Test Method for Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve
ASTM C618	Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
ASTM C900	Standard Test Method for Pullout Strength of Hardened Concrete
ASTM C1107	Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
ASTM C1157	Standard Performance Specification for Hydraulic Cement
ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures
ASTM C1602	Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete
ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
ASTM D7234	Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
Soil	

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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 (Withdrawn 2023)
ASTM D1140	Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
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
ASTM D1196	Standard Test Method for Nonrepetitive Static Plate Load 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 Soil
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 D2487	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D3282	Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
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 D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4944	Standard Test Method for Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Gas Pressure Tester

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ASTM D5030	Standard Test Methods for Density of In-Place Soil and Rock Materials by the Water Replacement Method in a Test Pit
ASTM D5084	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter
ASTM D6913	Particle Size Analysis (Sieving Method)
ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine Grained Soils Using the Sedimentation (Hydrometer) Analysis
BS 1377 Part 9	Plate Bearing Test
DIN 18134	Testing procedures and testing equipment-Plate load test
Aggregate	
ASTM C29	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate
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	Standard Test Method for Lightweight Particles in Aggregate
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	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 C142	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 C702	Standard Practice for Reducing Samples of Aggregate to Testing Size
ASTM C1252	Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)
ASTM C1260	Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar- Bar Method)

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ASTM C1567	Standard Test Method For Determining The Potential Alkali-Silica Reactivity Of Combinations Of Cementitious Materials And Aggregate (Accelerated Mortar-Bar Method)
ASTM D75	Standard Practice for Sampling Aggregates
ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
ASTM D4435	Standard Test Method for Rock Bolt Anchor Pull Test
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 812 Part 105.1	Testing aggregates - Methods for determination of particle shape - Flakiness index of coarse aggregate
BS 812 Part 105.2	Testing aggregates -Methods for determination of particle shape - Elongation index of coarse aggregate
BS 812-106	Testing Aggregates. Method for Determination of Shell Content in Coarse Aggregate
BS 812-110	Methods for determination of aggregate crushing value (ACV)
BS 812-111	Testing aggregates Methods for determination of ten per cent fines value (TFV)
BS 812-112	Testing aggregates Method for determination of aggregate impact value (AIV)
BS EN 933-1	Tests for geometrical properties of aggregates Determination of particle size distribution. Sieving method
BS EN 933-3	Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index
BS EN 933-7	Determination of shell content Percentage of shells in coarse aggregates
BS EN 1097-2	Methods for the determination of resistance to fragmentation
BS EN 1097-6	Determination of particle density and water absorption
BS EN 1367-4	Determination of drying shrinkage
Asphalt	
ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures
ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures
ASTM D2172	Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures

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ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
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 D5361	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing
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
MS-2	Asphalt Mix Design Methods
Non-Destructive Testing (NDT)	
ASTM C876	Standard Test Method for Corrosion Potentials of Uncoated Reinforcing Steel in Concrete
ASTM D6132	Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage
ASTM E164	Standard Practice for Contact Ultrasonic Testing of Weldments
ASTM E376	Standard Practice for Measuring Coating Thickness by Magnetic-Field or Eddy Current (Electromagnetic) Testing Methods
ASTM E1417	Standard Practice for Liquid Penetrant Testing
ASTM E1444	Standard Practice for Magnetic Particle Testing
ASTM E1710-18	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2177	Standard Test Method for Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings using the Bucket Method in a Condition of Wet Recovery
Concrete Masonry Units	
ASTM C90	Standard Specification for Loadbearing Concrete Masonry Units
ASTM C129	Standard Specification for Nonloadbearing Concrete Masonry Units
ASTM C140	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
ASTM C936	Standard Specification for Solid Concrete Interlocking Paving Units
Air Leakage	
ASTM E779	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization

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ATTMA-TSL1	Technical Standard L1. Measuring Air Permeability of Building Envelopes (Dwellings)
ATTMA-TSL2	Technical Standard L2. Measuring Air Permeability of Building Envelopes (Non-Dwellings)
BS EN 15004-1 Annex E	Gaseous fire-extinguishing systems - Physical properties and system design "Door fan test for determining of minimum hold time"
ISO 9972	Thermal performance of buildings -Determination of air permeability of buildings - Fan pressurization method
ISO/DIS 14520-1; Annex E	Gaseous fire-extinguishing systems - Physical properties and system design "Door fan test for determining of minimum hold time"
NFPA 2001 Annex C	Standard on Clean Agent Fire Extinguishing Systems
USACE Version 3: 11-May-2012	U.S. Army Corps of Engineers Air Leakage Test Protocol for Building Envelopes
Bitumen Testing	
AASHTO T 48	Standard Method of Test for Flash Point of Asphalt Binder by Cleveland Open Cup
AASHTO T 316	Standard Method of Test for Viscosity Determination of Asphalt Binder Using Rotational Viscometer
ASTM D05	Standard Test Method for Penetration of Bituminous Materials
ASTM D36	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D70	Standard Test Method for 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 Asphalt Materials
ASTM D445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
ASTM D1188	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples
ASTM D2171	Standard Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer
ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
Geotechnical & Rock Testing	

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ASTM D3967	Standard Test Method for Splitting Tensile Strength of Intact Rock Core Specimens)
ASTM D4543	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances
ASTM D5731	Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications
ASTM D7012	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperature
BS 5930:2015+A1 2020	Description & Classification of Soil & Rock material- Code of practice for ground investigation
BS EN 13383-2	Rock Manual
CIRIA C683	The Rock Manual