



CERTIFICATE OF ACCREDITATION

This is to attest that

ADVANCED TECHNICAL SERVICE COMPANY FOR INDUSTRIAL INSPECTION AND RADIOLOGICAL SERVICES WLL (ATSI)

PLOT 5A, BLOCK 31, MINA ABDULLAH INDUSTRIAL AREA
AHMADI 32097, STATE OF KUWAIT

Testing Laboratory TL-852

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 January 11, 2024



A handwritten signature in black ink, reading "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

ADVANCED TECHNICAL SERVICE COMPANY FOR INDUSTRIAL INSPECTION AND RADIOLOGICAL SERVICES WLL (ATSi)

www.ats-kw.com

Contact Name Jijo Chakkappan

Contact Phone +965-99392701

Accredited to ISO/IEC 17025:2017

Effective Date January 11, 2024

Mechanical Testing	
API 5L7 App. 13	Flexibility test of coated steel panels
API 1104	Welding of Pipelines and Related Facilities (Tensile Test, Bend Test, Impact Test and Nick Break Test)
ASME Sec IX	Macro test on welded specimens
ASME Sec IX	Qualification Standard for Welding, Brazing, And Fusing Procedures; Welders, Brazers; And Welding, Brazing and Fusing Operators (Tensile Test, Bend Test, Fracture Test)
ASTM A 370	Standard Test Methods & Definitions for Mechanical Testing of Steel Products (Tensile Test, Bend Test, Impact Test)
ASTM B557	Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
ASTM D2370	Tensile Properties of Organic Coatings
ASTM D4541	Pull-Off Strength of Coatings using Adhesion tester
ASTM E10	Brinell Hardness of Metallic Materials
ASTM E18	Rockwell Hardness of Metallic Materials
ASTM E23	Standard Test Method for Notched Bar Impact testing of Metallic Materials (Impact Test)
ASTM E92	Standard Test Method for Vickers Hardness & Knoop Hardness of Metallic Materials (Hardness Test)
ASTM E190	Standard Test Method for Guided Bend test for Ductility of welds (Bend Test)
ASTM E290	Standard Test Methods for Bend testing of Materials for Ductility (Bend Test)
ASTM E340	Macroetching Metals and Alloys
ASTM E381	Macroetch Testing of Steel
ASTM F606	Proof load testing of bolts

TL-852
**Advanced Technical Service
Company for Industrial
Inspection and Radiological
Services WLL (ATSi)**



SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ASTM G95	Cathodic Disbondment Test of Pipeline Coatings (Attached Cell Method)
AWS D1.1	Macro test on welded specimens
AWS D1.1	Structural Welding Code (Tensile Test, Bend Test, Fracture Test)
BS EN ISO 6892-1	Metallic material- Method of test at room temperature
ISO 21809-3 Annex. F	Cathodic Disbondment Test of field joint coatings
ISO 21809-3 Annex. I	Hot water Immersion test of field joint coatings
Construction Material Testing	
ASTM C39/39M	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
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 C805	Standard Test Method for Rebound Number of Hardened Concrete
ASTM C1019	Standard Test Method for Sampling and Testing Grout (Compressive Strength of test of grout cubes)
BS 1881 Part 116	Testing concrete. Method for determination of compressive strength of concrete cubes (Superseded, withdrawn by BS EN 12390-3, Being continued in our scope due to ongoing project)
BS-EN 12390-3	Testing hardened concrete. Compressive strength of test specimens (Cubes)
Geotechnical (Soil) Testing	
ASTM D422	Standard Test Method for Particle-Size Analysis of Soils (Sieve analysis of soil) (Withdrawn 2016, No replacement. Being continued in the scope due to ongoing projects)
ASTM D698-12e2	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 D1556/D1556M-15e1	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) (Maximum Dry Density and Optimum Moisture Content)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

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 D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4643	Standard Test Method for Determination of Water Content of Soil and Rock by Microwave Oven Heating
ASTM D6913/D6913M	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
ASTM G187	Standard Test Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method
BS 1377-3.3	Organic matter content in Soils
BS 1377-3.4	Loss on ignition in soils
BS 1377-9-3.3	Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)
BS EN ISO 22476-2	Determination of Dynamic Probing Resistance of soils using 90o Cone (Dynamic Probing-Light)
Aggregates	
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/C123M	Standard Test Method for Lightweight Particles in 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 C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Standard Practice for Reducing Samples of Aggregate to Testing Size

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ASTM C1252	Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)
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
ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate
BS 812-105.1	Testing aggregates. Methods for determination of particle shape. Flakiness index
BS 812-105.2	Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate
BS 812-110	Method of determination of aggregate crushing value
BS 812-111	Method of determination of Ten Percent fines value
BS 812-112	Method of determination of aggregate impact value
BS 812-2	Testing aggregates. Methods for determination of density, voids in aggregates
Asphalt & Bitumen	
ASTM D2172/D2172M-17e1	Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures
ASTM D2726/D2726M	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
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 & Masonry	
ASTM C31/C31M	Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C67/C67M	Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile
ASTM C109/C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C138/C138M	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ASTM C140/140M	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
ASTM C143/C143M	Standard Test Method for Slump of Hydraulic-Cement Concrete
ASTM C172/C172M	Standard Practice for Sampling Freshly Mixed Concrete
ASTM C192/C192M	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
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 C1064/C1064M	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens
Waste and Wastewater	
APHA 2130 B	Turbidity by Nephelometric method
APHA 2510 B	Conductivity
APHA 2520 B	Salinity
APHA 2540 C	Total Dissolved Solids Dried at 180°C
APHA 4500-Br B	Bromide by Phenol Red Colorimetric Method
APHA 4500 H ⁺ B	pH Value
APHA 5310 B	Total Organic Carbon (TOC) by High Temperature Oxidation Combustion Method
BS EN 12260:2003	Determination of bound Nitrogen (TNb) after Combustion and Oxidation to Nitrogen Dioxide using Chemiluminescence Detection
HACH 8160	US EPA Direct Measurement Method 0.01 µS/cm to 200 mS/cm
HACH 10360	Luminescence Measurement of Dissolved Oxygen
ISO 15923-1	Determination of Selected Parameters by Discrete Analysis Systems Part 1: Chloride, Orthophosphate, Sulfate, Nitrate and Nitrite with photometric detection
U.S. EPA 335.4	Determination of Total by Semi-Automated Colorimetry
U.S. EPA 6010 D	Determination of Trace Elements in Aqueous Solutions by ICP/AES

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

Soil/Sediments/Solid Waste	
ISO 10694	Determination of Organic and Total Carbon (TOC) after dry combustion (Elementary Analysis)