



CERTIFICATE OF ACCREDITATION

This is to attest that

QATAR ENVIRONMENT & ENERGY RESEARCH INSTITUTE (QEERI)

HBKU RESEARCH COMPLEX, QATAR FOUNDATION, EDUCATION CITY,
DOHA, 34110, STATE OF QATAR

Testing Laboratory TL-997

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 November 17, 2023



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

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

QATAR ENVIRONMENT & ENERGY RESEARCH INSTITUTE (QEERI)

www.hbku.edu.qa/qeeri

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Accredited to ISO/IEC 17025:2017

Effective Date November 17, 2023

Environment Sustainability Center	
APHA 2130 B	Determination of Turbidity by Nephelometric Method
APHA 2320 B	Determination of Alkalinity and Forms of Alkalinity (Total Alkalinity, Phenolphthalein Alkalinity, Bicarbonate, and Carbonate) in Water by Titration Method
APHA 2340 B	Determination of Total Hardness in Water by Calculation Method
APHA 2510-B	Determination conductivity by Laboratory Method
APHA 2520 B	Determination of Salinity in Water by Electrical Conductivity Method
APHA 2540 B	Determination of Total Solids in Water Dried at 103-105oC by Gravimetric Method
APHA 2540 C	Determination of Total Dissolved Solids in Water by Gravimetric Method
APHA 2540 D	Measurement of Total Suspended Solids in Water Dried at 103-105°C by Gravimetric Method
APHA 2540 E	Determination of Fixed and volatile solids by gravimetric method
APHA 3120 B	Metals by Plasma emission spectroscopy - Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)
APHA 4110-B	Determination of Anions in water by Ion Chromatography method
APHA 4500-H ⁺ B	Determination of pH Value of Water by Electrometric Method
APHA 4500 O- G	Measurement of Dissolved Oxygen in Water by Membrane Electrode Method
APHA 4500 S2- F	Determination of Sulfide in Water by Iodometric Method
APHA 5220 D	Determination of Chemical Oxygen Demand in Water by Closed Reflux Colorimetric Method
APHA 5310 B	Determination of Total Organic Carbon in Water by High Temperature Combustion using TOC Machine
APHA 9050	Preparation of Culture Media
APHA 9213 G	Determination of <i>Pseudomonas aeruginosa</i> in Water by Enzyme Substrate Method
APHA 9215 D	Determination of Heterotrophic Plate Count in Water by Membrane Filtration Method
APHA 9223 B	Determination of Fecal coliform in Water by Enzyme Substrate Method
APHA 9223 B	Determination of Total Coliform & E. coli in Water by Enzyme Substrate Method
APHA 9230 D	Determination of <i>Enterococci</i> in Water by Enzyme Substrate Method

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APHA 9610 C	Determination of Total Fungi in water by Spread Plate Method
ASTM D8068-19	Determination of Airborne Fungi or Bacteria in Air by Inertial Impaction Method
ASTM D8083-16	Determination of Total Nitrogen in Water by High Temperature Catalytic Combustion using Shimadzu TOC-L with TNM-L TN Unit
ASTM D8428-21	Determination of <i>Legionella pneumophila</i> in Water by Enzyme Substrate Method
US EPA 3005 A	Acid Digestion of Waters for Total Recoverable or Dissolved Metals for Analysis by Flame Atomic Absorption (FLAA) or Inductively Coupled Plasma (ICP) Spectroscopy
US EPA 6010C	Inductively Coupled Plasma - Atomic Emission Spectrometry
Corrosion Center	
ASTM E3-11	Metallographic Specimen Preparation
ASTM E92	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
ASTM G5-14	Potentiodynamic Polarization Test
ASTM G59-97	Potentiodynamic Polarization Resistance Test
ASTM G71-81	Galvanic Corrosion Test
Energy Center	
IEC 60891	Photovoltaic devices – Procedures for temperature and irradiance corrections to measured I-V characteristics
IEC 60904-1	Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics
IEC 61215-2	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures - Section 4.1: Visual inspection (MQT 01)
IEC 61853-1	Photovoltaic (PV) module performance testing and energy rating – Part 1: Irradiance and temperature performance measurements and power rating
IEC TS 60904-1-2	Photovoltaic devices – Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices
IEC TS 60904-13	Photovoltaic devices – Part 13: Electroluminescence of photovoltaic modules