

# CERTIFICATE OF ACCREDITATION

This is to attest that

#### **QATARENERGY LNG**

HALLUL AVENUE RASLAFFAN INDUSTRIAL CITY, 22666, STATE OF QATAR

**Testing Laboratory TL-955** 

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 17, 2023



President

### **SCOPE OF ACCREDITATION**

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

### **QATARENERGY LNG**

Contact Name Ms. Maryam Al-Kaabi

**Contact Phone** +974 44732822

Accredited to ISO/IEC 17025:2017

Effective Date January 17, 2023

#### A) SOUTH LABORATORY

Irrigation Water	
EPA 310.1	Alkalinity as CaCO <sub>3</sub> (Titrimetric, pH 4.5)
EPA 410.4	The Determination of Chemical Oxygen Demand (COD) by Semi-Automated Colorimetry
HACH 8021	Chlorine, Free, Low Range - USEPA DPD Method
EPA 120.1	Conductance (Specific Conductance, µmhos at 25°C) by Conductivity Meter
EPA 245.2	Mercury in water (Automated Cold Vapor Technique) by Atomic Absorption
EPA 1664 A	n-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry
EPA 150.1	pH (Electrometric) at 25°C
EPA 300	Determination of Inorganic Anions by Ion Chromatography - Phosphate (as HPO <sub>4</sub> )
EPA 300	Determination of Inorganic Anions by Ion Chromatography - Sulfate (SO <sub>4</sub> )
EPA 300	Determination of Inorganic Anions by Ion Chromatography - Chloride (CI)
EPA 130.2	Hardness, Total (mg/L as CaCO₃)(Titrimetric, EDTA)
LNG	
GPA 2261	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography- Natural Gas [Rich] Analysis by Gas Chromatography
GPA 2261	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography - Natural Gas [Lean] Analysis by Gas Chromatography
Fuel Gas	·
GPA 2261	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography - Fuel Gas Streams Analysis by Gas Chromatography

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#### **B) NORTH LABORATORY**

Liver Cod Network Con (LNO) for contact to the transfer		
NG) for custody transfer		
Analysis for Natural Gas and Similar Gaseous Mixtures by Gas		
Chromatography - Determination of gas composition (N2, C1-C5) by Gas		
Chromatography		
Analysis for Natural Gas and Similar Gaseous Mixtures by Gas		
Chromatography - Determination of gas composition (N2, C1-C5, CO2, C6+)		
by Gas Chromatography		
ohtha, Gasoil, Condensate, Kerojet A1		
Standard Test Method for Density at 15°C, Relative Density and API Gravity at 60/60°F of Liquids Hydrocarbon by Digital Density Meter		
Standard Test Method for Freezing Point of Aviation Fuels (Automatic Laser		
Method)		
Determination of Flash Point – Abel Closed-cup Method		
Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester		
Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels		
(Optical Detection Stepped Cooling Method)		
Standard Test Method for Pour Point of Petroleum Products (Automatic Tilt		
Method)		
Standard Test Method for Color of Petroleum Products by the Automatic		
Tristimulus Method – ASTM Color Scale		
Standard Test Methods for pH of Water at 20-25 °C – Test Method B –		
Routine or Continuous Measurement of pH		
Standard Test Methods for Electrical Conductivity and Resistivity of Water at		
25°C – Test Method A – Field and Routine Laboratory Measurement of Static		
(Non-Flowing) Samples		

#### C) BARZAN LABORATORY

Irrigation Water	
EPA 120.1	Conductance (Specific Conductance, µmhos at 25 °C) by Conductivity Meter
EPA 150.1	pH (Electrometric) at 25 °C
Fuel Gas	
GPA 2261	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography - Fuel Gas Streams Analysis by Gas Chromatography