



CERTIFICATE OF ACCREDITATION

This is to attest that

GULF PETROCHEMICAL INDUSTRIES COMPANY (GPIC)

BUILDING 51 – ROAD 1401 – UM AL BAIDH-SITRA, BLOCK 614
MANAMA
KINGDOM OF BAHRAIN

Calibration Laboratory CL-174

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration 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 December 10, 2019

Expiration Date April 1, 2023



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

GULF PETROCHEMICAL INDUSTRIES COMPANY (GPIC)

www.gpic.com

Contact Name Abdul Rahim Maraghi

Contact Phone +973-177-31-777

Accredited to ISO/IEC 17025:2017

Effective Date December 10, 2019

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
Mechanical			
Pressure Gauges (Analogue Type)	0 bar to 20 bar	1. %FS	Budenberg Dead Weight Tester
	0 bar to 26 bar	0.48 %FS	
	0 bar to 200 bar	0.25 %FS	
	0 bar to 600 bar	0.35 %FS	
Pressure Transmitter & Pressure Switches	0 bar to 400 bar	0.1 %FS	Budenberg Dead Weight Tester or Beamax Multifunction Calibrator
Beamax Multifunction Calibrator	0 bar to 400 bar	0.02 %FS	Budenberg Dead Weight Tester
Electrical – DC/LF			
DC Voltage Generate ³	-100 mV to 500 mV	6.1 µV	Fluke 5500A
	-1.0 V to 1.0 V	6.1 µV	
	-20 V to 50 V	6 mV	
DC Voltage Measure ⁴	-500 mV to 500 mV	4 µV	Agilent 34401A
	-12 V to 12 V	4.2 mV	
DC Current Generate ³	-50 mA to 100 mA	1.7 µA	Fluke 5500A
DC Current Measure ⁴	-25 mA to 25 mA	1.1 µA	Agilent 34401A
Chemical/Gas			
Analyzer - Process and Flue Gases	Oxygen	2 %FS	Certified Gases
	Carbon dioxide	2 %FS	
	Hydrogen	2 %FS	
	Hydrogen sulfide	2 %FS	
	Carbon monoxide	2 %FS	
	Ammonia	2 %FS	
	Methane	2 %FS	
Multi Gas Detectors - Low Explosive Limit gases	Methane 50% LEL (CH ₄ -2.5%)	2.5 % FS	Certified Gases
	CO – 100 ppm	CO – 2 % FS	
	Hydrogen Sulfide -H ₂ S - 25 ppm	H ₂ S – 2 % FS	
pH	0 pH to 14 pH	0.02 pH	Certified Buffer Solutions

* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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¹The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

²When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

³Capability is suitable for the calibration of measuring devices in the stated ranges.

⁴Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.