ABERDEEN TECHNICAL SERVICES

Certificate of Calibration

Iraq- Basra- Jaza'er, Field : North Rumela
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Date of Issue: July 30, 2023

REF NUMBER	: By contract	APPROVED BY CALIBRATION LAB INCHARGE QC
ADDRESS	: QC/JN/23/00264	
CERTIFICATE NUMBER	: **QC230730-06**	Mahdi Haleem

CUSTOMER DETAILS

Name **DPAB Co.Ltd Iraq Branch Block-9**
Address Basra - Iraq, Block 9
Rig **DQ45**

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description **Multigas Detector**
Manufacturer BW
Model MicroClip XL
Serial Number **kA421-8020092**
Type Digital
Calibrated Range 25 PPM H2S 100 PPM CO 50% LEL
18.0% O2
Calibrated By Mahdi Haleem
Calibration Date July 30, 2023
Calibration Due **January 29, 2024** **180 days**
Calibration Site DQ45 well site

Alarm Details	Low	High
Oxygen (O2) %	19.5	23.5
H2S-ppm	10	15
CH4-%LEL	10	20
CO-ppm	35	200

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C ± 2 °C
Relative Humidity 45 %RH ± 5 %RH

CALIBRATION METHOD

A reference cylinder consisting of composition gases (O2, LEL, H2S, CO) is used , which are detected by gas detector by diffusion.

TRACEABILITY

The measurements made by QC Calibration & Testing Labs are traceable to NIST, vide Intermountain Speciality Gases Certificate of Analysis
The measurements made by QC Calibration & Testing Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	MAKE	GAS EXPIRY DATE
Mixture of Gases.	955-545316	CALGAZ	1/3/2025

CALIBRATION TEST RESULTS

Gas Name	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
Oxygen(O2)%	19.5	20.50	0.60	± 1
Methane(CH4) LEL	51.00	50.00	1.00	± 1
Carbon Monoxide(CO) ppm	100.00	99.00	1.00	± 1
Hydrogen Sulphide(H2S) ppm	25.00	26.00	-1.00	± 1

Results :
The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use