

## Certificate of Calibration

AlTakamul Yard, North Rumaila-South Iraq

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REQUEST NUMBER :	: By Contract	APPROVED BY: LAB INCHARGE QC
JOB NUMBER :	: QC/JN/24/0011	
CERTIFICATE NUMBER :	: QC240115-04	



### CUSTOMER DETAILS

Name : **Hilong Oil Service & Engineering Company**  
 Address : Basra ,South Rumaila, South Iraq  
 Rig Number : HL99

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : <b>Portable H2S Detector</b>	<b>Alarm Details</b>	<b>Low</b>	<b>High</b>
Manufacturer : MSA	H2S PPM	10	15
Model : Altair 2X			
Serial Number : <b>00114527</b>			
Type : Digital			
Calibrated Range : 25 PPM H2S			
Calibrated By : Mahdi Haleem			
Calibration Date : January 15, 2024			
<b>Calibration Due : July 14, 2024</b>			
Calibration Site : QC LAB			



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature :	19.3 °C	±	0.1 °C
Relative Humidity :	42.3 %RH	±	0.5 %RH

### CALIBRATION METHOD

A reference cylinder consisting of gas (H2S) 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
Multi Gas Cylinder ( h2s 25 ppm , LEL 50% )	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
H2S PPM	23	25	2.00	± 2

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.