

Certificate of Calibration

Al Takamul Yard, North Rumaila, Iraq

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REQUEST NUMBER	: By Mail	APPROVED BY LAB IN CHARGE QC
JOB NUMBER	: QC/JN/24/00193	
CERTIFICATE NUMBER	: QC240427-50	

CUSTOMER DETAILS

Name : DQ (MUD UNIT)
Address : Rumaila Base south Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Metal Mud Balance**
Manufacturer : HAITONGDA
Model : XYM-3
Serial Number : **117042304006**
Range : 0.9 g/cm³ to 3.1 g/cm³
Resolutions : 0.01 g/cm³
Calibrated By : Asjad Rafiq
Calibration Date : **April 27, 2024**
Calibration Due : **26 April 2025**



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 20 °C ± 2 °C
Relative Humidity : 40 %RH ± 5 %RH

CALIBRATION METHOD

The Unit Under Calibration is calibrated by using standard method given in accordance with the Manufacturer's Manual. The Values obtained from scale of Unit Under Calibration are taken after balancing the cell with distilled water and then increasing the Mud on the cell by using reference Fluid.

TRACEABILITY

The measurements made by Quality Control 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.	BATCH NO.	EXPIRE DATE
Standard Fluid (Glycerin)	LAB ALLEY	522657	28-Jul-24
Fresh Water			

CALIBRATION TEST RESULTS

Reference Mud in 20 C°	Readings on Unit Under Calibration	Measurement Uncertainty
	gms/cm ³	± gms/cm ³
Water (0.998 g/cm ³)	1.00	0.01
Glycerin (1.260 g/cm ³)	1.260	0.01

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with international practice.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. The results relate to measurements taken at nominal value only.
2. No adjustments were made prior to calibration.
3. No accessories were fitted.
4. Values were rounded in computation.

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