

Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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Date of Issue: September 22, 2026

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REQUEST NUMBER	By Contract	APPROVED BY LAB INCHARGE QC
QC JOB NUMBER	QC-CAL-26154	
CERTIFICATE NUMBER	QC-CAL-26154-12	

CUSTOMER DETAILS

Name : **Egyptian Maintenance Company(EMC) IRAQ**
Address : Basra , South Iraq



EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Torque Wrench**
Type of Indication : Analog
Manufacturer : Hi-Force
Model : TWN 550
Serial Number : **D06855**
Calibrated Range : 110 to 550 N.m
Resolution : 10 N.m
Tolerance : $\pm 4\%$
As Found : In Tolerance
Calibration Date : September 22, 2026
Calibration Due : **September 21, 2027**



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 40 °C $\pm$ 5°C Relative Humidity : 25 %RH $\pm$ 5% RH

CALIBRATION METHOD

This calibration was carried out in compliance with ISO/IEC 17025, 2017 & ISO 9001, 2015, With ISO 6789-1&2 Standards.

Verify the torque wrench at minimum 3 points, 20%, 60% and 100% of its maximum torque capacity. Calibrate or replace if verification is not within manufacturer's specifications.

REFERENCE EQUIPMENT USED :

DESCRIPTION	MAKE / MODEL	SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Torque Wrench Calibrator	Nobar / Pro Test 1500	90962	November 3, 2025	November 2, 2026

CALIBRATION TEST RESULTS

Measurement Data For Torque

Clockwise Measurements

Readings on UUC	Readings on Ref. Standard (Avg. of 5 Measurements)	Deviation	Error Percentage (Tolerance $\pm 4\%$)	Uncertainty (95 % C.L.)
N.m	N.m	N.m	%	$\pm$ N.m
110.0	111.0	-1.00	-0.9	4.40
350.0	352.0	-2.00	-0.6	14.00
550.0	552.0	-2.00	-0.4	22.00

Counter Clockwise Measurements

Readings on UUC	Readings on Ref. Standard (Avg. of 5 Measurements)	Deviation	Error Percentage (Tolerance $\pm 4\%$)	Uncertainty (95 % C.L.)
N.m	N.m	N.m	%	$\pm$ N.m
110.0	110.5	-0.50	-0.5	4.40
350.0	351.2	-1.20	-0.3	14.00
550.0	552.0	-2.00	-0.4	22.00

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

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) : ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.