

Vaidyanatheshwara Instruments

CERTIFICATE OF CALIBRATION



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No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.

NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

1 Name and Address of the

M/a: MAG ENGINEERING UNIT A

Customer

(A Unit of Sandhar Technologies Ltd.)

No. 46A, 3rd Main, 2nd Phase, Peenya, Bangaloro, Karnataka - 560 058.

2 Customer Reference

2.1 ULR No.

: CC247323100010387F

2.2 SRF No.

: 8525

2.3 Certificate No.

: VI/22-23/8525-14

2.4 VI Format No.

: VI-FRM-ME-010

2.5 Dc No & Dc Date 2.6 Date of Reciept

: SIA/RGP21-22/0365 & 13-03-2023

2.7 Date of Issue

: 14-03-2023 : 17-03-2023

3 Details Of Device Under Calibration(DUC),

3.1 Nomenclature

: Torque Wrench

3.2 Make / Model

: Mokastor / MTW 100R

3.3 Sl.No. / ID No.

: 121-18 / MS-11

3.4 Range/LC

: 25 - 136 N-m / 6 N-m

3.5 Ref. Std. / Calibration Procedure No. : IS 16906: 2018 / SOP-16-08 3.6 Calibration Procedure No.

: SOP-16-08

3.7 No.of Pages

3.8 Calibration Date

: 17-03-2023

3.9 Calibration Due

: 16-03-2024

4.0 Calibration done at 4.1 Discipline

: VI Mochanical Lab : Mochanical (Torquo)

5 Environmental Condition

Temperature

20.3-20.6 °C

Humidity

63-66 %RH

6 Standards Used for callbration

SI. No.		omenciature Make & Model Torque Sensor's						
OI, 140,	Nomenclature	Make & Model	SI. No	Tracoablo Cort. No.	Tracoable to	Vallelle		
	6digit Digital	Cumbon 0	01.110		774004101010	Validity		
1	Wrench calibration QST	SA-123/ QDD-	S28-02 / S28-03	VI/22-23/INT-ME-250- 01 / 250-02	VI-Bangaloro	14-07-2023		
G Note:	system up to 1000 Nm	Or TEO GDD	020-02 / 020-03		VI-Bangaloro	14		

6 Note:

7.1. The Calibration Certificate relates only to the above DUC

7.2. Publication or reproduction of this Certificate in any form other than by complete set of the whole report & in the language, written, is not permitted without the written consent of VI Lab..

7.3. Corrections/erasing, invalidate the Calibration Certificate.

7.4. Calibration of the DUC are traceable to National standards/International Standards

7.5. Any error in this Certificate should be brought to our knowledge within 30 days from the date of this Cert. 7.6. Results Reported are valid at the time of and under the stated conditions of measurements.

7.7. The usage of NABL Symbol is as per NABL guidelines given in NABL-133

Calibrated By

(Calibration Engineer)

(Lab-In-Charge)



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Certificate No.

VI/22-23/8525-14

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Range: 25 - 135 N-m

LC: 5 N-m

Results:

SI No.	DUC Set (N-m)	STD Reading (N-m)	Deviation Observed (N- m)	% Of Error
1	25	24.62	0.380	1.543
2	50	49.48	0.520	1.051
3	75	76.18	-1.180	-1.549
4	100	102.15	-2.150	-2.105
5	135	138.53	-2.840	-2.548

Note:

Permisible error as per IS 16906-2018 = \leq 10 N.m \pm 6% & > 10 N.m \pm 4% of set value.

Conclusion/ Remarks:

Uncertainty Measurment Is ± 1.5% FS at 95.45% Confidence level and Coverage Factor K = 2.

(Calibration Engineer)

Checked

P.Santho (Lab-In-C

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