



COMMITTED TO THE
CUSTOMER SINCE - 1998

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
Ph : 080-23377266, Mob : 9986586789 / 9632221171 / 9964308118 | Email : info@viplgroup.com Web : www.viplgroup.com

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

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1 Name and Address of the Customer

M/s: MAG ENGINEERING UNIT A
(A Unit of Sandhar Technologies Ltd.)
No. 46A, 3rd Main, 2nd Phase, Peenya,
Bangalore, Karnataka - 560 058.

2 Customer Reference

2.1 ULR No. : CC247323100010388F
2.2 SRF No. : 8525
2.3 Certificate No. : VI/22-23/8525-17
2.4 VI Format No. : VI-FRM-ME-010
2.5 Dc.No & Dc Date : SIA/RGP21-22/0365 & 13-03-2023
2.6 Date of Reciept : 14-03-2023
2.7 Date of Issue : 17-03-2023

3 Details Of Device Under Calibration(DUC)

3.1 Nomenclature : Torque Wrench
3.2 Make / Model : Topman / TM25
3.3 Sl.No. / ID No. : 6H.18 / MS-14
3.4 Range/LC : 5 - 35 N-m / 2 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 : 2
3.8 Calibration Date : 17-03-2023
3.9 Calibration Due : 16-03-2024
4.0 Calibration done at : VI Mechanical Lab
4.1 Discipline : Mechanical (Torque)

5 Environmental Condition

Temperature 20.1-20.5 °C Humidity 52-54 %RH

6 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	Torque Sensor's Sl. No	Traceable Cert. No.	Traceable to	Validity
1	5digit Digital Motorized Torque Wrench calibration system up to 1000 Nm	Sushma & QST SA-123/ QDD- 01BV	S28-02 / S28-03	VI/22-23/INT-ME-250- 01 / 250-02	VI-Bangalore	14-07-2023

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

Hemanth
Hemanth Kumara G
(Calibration Engineer)

Checked By

P.Santhosh Kumar
(Lab-In-Charge)





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Range: 5 - 35 N-m

LC : 2 N-m

Results:

SI No.	DUC Set (N-m)	STD Reading (N-m)	Deviation Observed (N-m)	% Of Error
1	5	5.123	-0.123	-2.401
2	15	14.718	0.282	1.916
3	25	24.72	0.280	1.133
4	35	35.83	-0.830	-2.316

Note:

Permissible error as per IS 16906-2018 = $\leq 10 \text{ N.m} \pm 6\%$ & $> 10 \text{ N.m} \pm 4\%$ of set value.

Conclusion/ Remarks:

Uncertainty Measurement is $\pm 1.5\%$ FS at 95.45% Confidence level and Coverage Factor K = 2.

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Hemanth Kumara G
(Calibration Engineer)

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