



NCQC LABORATORY LLP

4, Abhishree Corporate Park, Nr. Swagat Bunglow BRTS,
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Visit our Web Site : www.calibrationlaboratory.in • LLP IN : ACH-9094 / GSTIN : 24AAWFN8511B1Z9



Precision Calibration Centre with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

Calibration Certificate

F/CR/M/069 Issue No. 03

Name of Customer

NCQC LABORATORY LLP

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS,
Iskcon - Ambli Road, Ambli, Ahmedabad - 380 058,
Gujarat

Certificate No.

NCQC-M/020925/066

Date of Issue

03/09/2025

Date of Calibration

02/09/2025

Suggested Due Date

01/09/2026

Date of Receipt / Ref.No.: 02/09/2025

ULR No. : CC212825000003937F

Discipline : Mechanical Calibration
Acceleration & Speed

Details of Observation of Unit Under Calibration

Identification No. : NCQC/M-35

Serial No. : Q604585

Name of Instrument : Digital Tachometer

Range 0.5 to 19999 RPM / 10 to 99999 RPM
Resolution 0.1 RPM Upto 999.9 RPM and Above 1 RPM
Make / Model Lutron/DT- 1236L
Location Laboratory

Initial Error Nil
Visual Inspection OK
Accuracy $\pm(0.05\% + 1 \text{ digit})$
Type / Size Contact & Non-Contact

Loc. of Calibration At Laboratory
Environment Cond. $23 \pm 2^\circ\text{C}$, 40 to 60 % RH
Actual Env. Cond. 23.6°C 49.9 %RH

Std. Ref. Used TR 45-01 & 03
Cali.Method No. NCQC/CM/M/069

Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
55	Master Digital Tachometer	Line Seiki / TM-7010	NCQC/M-154 / 184-0004	CC-2287	CC/ECL/0970/24-25	18/09/2025

Calibration Results for Non - Contact Type (Auto Range)

Reading Observed by Master Tachometer in RPM	Reading Observed by UUC in RPM	Error in RPM	% Error	Expanded Uncertainty in RPM (k =2)
10.0	10.0	0.0	0.00 %	1.00
20.0	20.0	0.0	0.00 %	1.00
50.0	50.1	0.1	0.20 %	1.00
100.0	100.2	0.2	0.20 %	1.03
500.1	500.3	0.2	0.04 %	1.03
1000.5	1001	0.5	0.05 %	2.12
5000.9	5002	1.1	0.02 %	3.34
10001.5	10004	2.5	0.03 %	4.01

Calibration Results for Non - Contact Type (X 10 Multiplier)

Reading Observed by Master Tachometer in RPM	Reading Observed by UUC in RPM	Error in RPM	% Error	Expanded Uncertainty in RPM (k =2)
20001.4	20004	2.6	0.01 %	17.02
30001.1	30004	2.9	0.01 %	17.01
50001.7	50005	3.3	0.01 %	17.01
70001.8	70006	4.2	0.01 %	17.02
80003.5	80008	4.5	0.01 %	23.15
90003.3	90008	4.7	0.01 %	23.15

Traceable To National / International Standards.

Calibrated By

Jaydeep Khatri

Jaydeep Khatri
Calibration Engineer

Reviewed & Approved By

Jigar Panchal
Calibration Incharge

NCQC System Certificate No. 29

Page 1 of 2

NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"



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CC-2128

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Identification No. : NCQC/M-35

Serial No. : Q604585

Name of Instrument : Digital Tachometer

Calibration Results For Contact Type

Reading Observed by Master Tachometer in RPM	Reading Observed by UUC in RPM	Error in RPM	% Error	Expanded Uncertainty in RPM (k = 2)
10.0	10.0	0.0	0.00 %	1.00
50.0	50.1	0.1	0.20 %	1.00
100.1	100.3	0.2	0.20 %	1.00
500.2	500.6	0.4	0.08 %	1.00
1000.2	1001	0.8	0.08 %	3.08
2000.7	2002	1.3	0.07 %	3.08
5001.2	5003	1.8	0.04 %	3.08
10001.7	10004	2.3	0.02 %	4.01

Remarks:

- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements
- Condition of instrument found satisfactory during receipt.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor $k = 2$
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By

Jaydeep Khatri

Jaydeep Khatri

Calibration Engineer

Reviewed & Approved By

Vijar Banchal

Vijar Banchal
Calibration Incharge

*** End of Certificate ***

Page 2 of 2

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