



CC - 3237

TRACEABILITY COPY

#40, 2<sup>nd</sup> Floor, 2<sup>nd</sup> Street,  
Padmavathi Nagar, Chromepet  
Chennai, Tamil Nadu - 600 04**CALIBRATION CERTIFICATE**

MCAL/FOR/QD-12

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PRF #	: MCAL/PRF/052351	Date of Calibration	: 18-May-2023
Certificate #	: MSIR/410523/51-002	Recom. Due Date	: 17-May-2024

<b>DETAILS OF USER CUSTOMER</b>		ULR #	: CC323723000008562F
M/S. Newton biomedical Service, 27, Pradhakshanam Road, A-Plot, 2nd Floor, Karur-639 001.		Calibrated at	: Lab
		Date of Receipt	: 18-May-2023
		Cond. On Receipt	: Satisfactory
		Date of Issue	: 19-May-2023

<b>DETAILS OF TEST / UNIT UNDER CALIBRATION</b>			
Description	: Digital Tachometer	Identification #	: --
Range	: 5 to 99999 RPM	Serial #	: S1049947
Cal. / Working Range	: 500 to 90000 RPM	Make	: Kusam-Meco
Least Count	: 0.1/1 RPM	Model #	: KM-22234BL
Location	: --	Accuracy	: As Per Manual

<b>DETAILS OF MASTER INSTRUMENT USED</b>			
Description (Range)	Identification #	Valid upto (Due Date)	Traceability Certificate #
Digital Tachometer	MCAL/INS/OP-02	12-Sep-2023	MSIR/410922/100-001

MFC #	: MCAL/MFC/OP-03
Details of Env.	: Temperature : 25±2°C      Relative Humidity : 40-70 % RH

<b>CALIBRATION RESULTS</b>				
Parameter : Acceleration & Speed				
Sl. #	Test Readings (RPM)	Standard Readings (RPM)	Error (RPM)	Uncertainty ± (RPM)
1.	500.4	500.9	-0.5	1.1
2.	1000	1001.7	-1.7	8.5
3.	3008	3011.2	-3.2	8.5
4.	5012	5025.3	-13.3	8.5
5.	10026	10047	-21	55.4
6.	30045	30072	-27	55.4
7.	50061	50097	-36	55.4
8.	70120	70165	-45	55.4
9.	90000	90051	-51	55.4

**Remarks**

- The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor k=2.
- The reported readings are average of three readings.

Issued by :		Authorized by :	
MCAL - Engineer	AJEETH KUMAR. M	Assistant Manager	BALAJI SANKAR DR

\*\*\* End of Certificate \*\*\*

**MSIR INDIA PRIVATE LIMITED**

(The Madras Science and Industrial Resources)

Phone :044 2265 2634, +91 9789877567, Email: calibration@msirindia.com Web: www.msirindia.com

### CALIBRATION CERTIFICATE

DATE: 06.09.2023

**NAME OF CUSTOMER:**

OHC SERVICE  
8569, TNH AYAPAKKAM,  
CHENNAI

DESCRIPTION OF THE EQUIPMENT: CENTRIFUGE

MODEL NO: R-303

COMPANY: REMI

INSTRUMENT USED FOR CALIBRATION: DIGITAL TACHOMETER

MODEL NO:KUSAM-MECO&amp;KM-2234BL

SL.NO: ZCEN-16350

CERTIFIED BY: MSIR INDIA PVT. LTD

INSTRUMENT VALIDITY: 17-05-2024

REGULATOR STEEPS	INSTRUMENT SPEED	TACHOMETER READING	ALLOWABLE ERROR	ERROR OBSERVED ±	RESULT
1.	700	717	±50	17	OK
3.	2102	2073	±50	29	OK
5.	3488	3500	±50	12	OK

NEXT CALIBRATION DUE ON: 05.09.2024

TESTED BY: G DINESH

APPROVED BY: Q.A

NOTE: 1) Calibration Points & due date is given as per customer request 2) This certificate refer only to particular item submitted for certificate 3) The calibration results reported are valid at the time of and under the stated conditions of the measurements 4) Any error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.