



TRACEABILITY COPY

#40, 2nd Floor, 2nd 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

DETAILS OF USER CUSTOMER		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

DETAILS OF TEST / UNIT UNDER CALIBRATION			
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

DETAILS OF MASTER INSTRUMENT USED			
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

CALIBRATION RESULTS				
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

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

Issued by :		Authorised by :	
MCAL - Engineer	AJEETH KUMAR. M	Assistant Manager	BALAJISATHYA 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

NAME OF CUSTOMER:

DATE: 01.04.2023

HOSCONS HEALTHCARE INDIA PRIVATE LIMITED
9/830, RANGANATHAN ROAD,
NALLATHAMBI NAGAR
MEDAVAKKAM,
CHENNAI-600100

DESCRIPTION OF THE EQUIPMENT: CENTRIFUGE

MODEL NO: C852

S.NO: ZDIN-23978

COMPANY: REMI

INSTRUMENT USED FOR CALIBRATION: DIGITAL TACHOMETER

MODEL NO: KUSAM-MECO&KM-2234BL

SL.NO: S1049947

CERTIFIED BY: MSIR INDIA PVT. LTD

INSTRUMENT VALIDITY: 03.04.2023

<i>REGULATOR STEPS</i>	<i>INSTRUMENT SPEED</i>	<i>TACHOMETER READING</i>	<i>ALLOWABLE ERROR</i>	<i>ERROR OBSERVED</i> ±	<i>RESULT</i>
1.	1100	1056	±50	44	OK
3.	2100	2064	±50	36	OK
5.	3500	3471	±50	29	OK

NEXT CALIBRATION DUE ON: 31.03.2024

TESTED BY: G DINESH

APPROVED BY: QA

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.