



Cert. No. : CC-2788



#40, 2<sup>nd</sup> Floor, 2<sup>nd</sup> Street,  
Padmavathi Nagar, Chromepet,  
Chennai, Tamil Nadu - 600 044.

### CALIBRATION CERTIFICATE

MCAL/FOR/TR-12

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PRF #	: MCAL/PRF/121947	Date of Calibration	: 16-Dec-19
Certificate #	: MSIR/411219/47-001	Recom. Due Date	: 15-Dec-20

#### DETAILS OF USER CUSTOMER

**M/S. Newton Biomedical Service,**  
27, Pradhakshanam Road, A-Plot,  
2nd Floor, Karur-639 001.

ULR Number	: ULR-CC278819000012131P
Calibrated at	: Lab
Date of Receipt	: 16-Dec-19
Cond. On Receipt	: Satisfactory
Date of Issue	: 18-Dec-19

#### DETAILS OF TEST / UNIT UNDER CALIBRATION

Description	: <b>Digital Tachometer</b>	Identification #	: --
Range	: As Per Report	Serial #	: S1049947
Cal./Working Range	: As Per Report	Make	: Kusam-Meco
Least Count	: 0.1 / 1 RPM	Model / Type	: KM-2234BL
Location	: --	Accuracy	: As Per Manual

#### DETAILS OF MASTER INSTRUMENT USED

Description	Identification #	Valid upto	Certificate #
Digital Tachometer	MCAL/INS/SS-02	29-May-20	JRPM-CCTR-A&S-2019-0010

MFC #	: --
Details of Env.	: Temperature: 23±1.5°C Relative Humidity: 40-70 % RH

#### CALIBRATION RESULTS

Sl.No.	Standard Reading	Test Reading	Error	UNCERTAINTY
	RPM	RPM	RPM	%
1	100	100.9	0.9	0.7
2	1000	1002	2.0	0.7
3	10000	9996	-4.0	0.7
4	50000	49989	-11.0	0.7
5	99000	98980	-20.0	0.7

#### Remarks :

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

Issued by :		Authorised by :	
MCAL - Engineer	<b>Balaji Sah.D.K</b>	QM / TM	<b>Abdul Azeez</b>



### MSIR INDIA PRIVATE LIMITED

(The Madras Science and Industrial Resources) Email: calibration@msirindia.com Web: www.msirindia.com

**CALIBRATION CERTIFICATE**

**NAME OF CUSTOMER:**

**DATE:** 02-11-2020

**KALPANA MICROBIOLOGY LAB**  
NO.40/25, POOKADAI CORNER,  
SOUTH CAR STREET,  
THIRUCHENGODE 637211

**DESCRIPTION OF THE EQUIPMENT:** CENTRIFUGE

**MODEL NO:** C49

**S.NO:** 14922

**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:** 15-12-2020

REGULATOR STEEPS	INSTRUMENT SPEED	TACHOMETER READING	ALLOWABLE ERROR	ERROR OBSERVED ±	RESULT
1.	700	719	±50	19	OK
3.	2100	2064	±50	36	OK
5.	3500	3461	±50	39	OK

**NEXT CALIBRATION DUE ON:** 01-11-2021

**TESTED BY:** G DINESH

**APPROVED BY:** 

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.