



TRACEABILITY COPY.

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

Cert. No. : CC-2788

CALIBRATION CERTIFICATE

Page # 1 of 1

MCAL/FOR/TR-12

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-CC278819000012131F
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	: Digital Tachometer	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

SLNo.	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 :
MCAL - Engineer

Balaji
Balaji Sah.D.K

Authorised by :
QM / TM

Abdul
Abdul Arshad

**MSIR INDIA PRIVATE LIMITED**

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

CALIBRATION CERTIFICATE

NAME OF CUSTOMER:

DATE: 09-01-2020

**ARUL JOTHI X-RAY'S & LAB,
NO: 26, POOKADAI STREET,
RASIPURAM-637408.**

DESCRIPTION OF THE EQUIPMENT: CENTRIFUGE

MODEL NO: C854/4

S.NO:3203

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	715	±50	15	OK
3.	2100	2063	±50	37	OK
5.	3500	3455	±50	45	OK

NEXT CALIBRATION DUE ON: 08-01-2021

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.