SRL and ICTC Government Medical College, Miraj Centrifuge In-House Performance Check

Centrifuge ID: Reg No Page No.

Name of the TO: Ghorpade

Certified Tachometer ID: SRL / GMCM / Micro

/Reg.No.1 /Page No72

Location : ICTC SDH Karad

Date of Calibration:25/11/2022

Certified Stop watch ID: <u>SRL/</u> GMCM/Micro/Reg No 1/Pg No

44

Reading No.	Centrifuge speed(RPM)	Tachometer Speed in (RPM)	Centrifuge Timer	Certified Stop watch
1	3000	3025	10	10.08
2	3000	3040	10	10.05
3	3000	3030	10	10.12
4	3000	3035	10	10.15
5	3000	3020	10	10.18
6	3000	3028	10	10.14
7	3000	3049	10	10.1
8	3000	3038	10	10.09
9	3000	3032	10	10.19
10	3000	3026	10	10.12
	Average	3032.3	Average	10.122
	STDev	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	STDev	0.044
	RPM Speed Accuracy %	1.08	Time Accuracy%	1.22
	RPM Speed CV%	0.28	Time CV%	0.44

Rotation Speed Criteria: Acceptable difference must be within ± 5% of required rotation rate
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Timer Criteria: Acceptable difference must be equal to or less than 2% of the timer setting.

Calibration Passed/Failed: Passed
Next Due Date: 4/05/2023

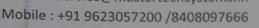
Remarks:

Sign of Technical Officer

State Reference Laboratory
Comment Medical College, Mirai

'Anjali Niketan', Flat No. 3, 2nd Floor, Viveknagar, Akurdi, Pune - 411035.

Website: www.mastertechsystems.in Email: service@mastertechsystems.in







Relative Humidity:

MASTERTECH SYSTEMS

WHEN QUALITY MATTERS

% Rh

CALIBRATION CERTIFICATE							
Certificate No.	:- 2122/0210/12-01	ULR No		CC291122000006756F			
Date of Calibration	:- 4-Apr-2022	Calibration Due Date	7	3-Apr-2023			
1. Clients Name & Address :		SRF No.	10	2122/0210/12			
SRL & ICTC LAB, GOVT. MEDICAL COLLEGE AND HOSPITAL, DEPT. OF MICROBIOLOGY		Date of Received	7	4-Apr-2022			
MIRAJ		Cal. Cert. Issue Date	10	5-Apr-2022			
		Condition of UUC	2	OK			
		Location of calibration	7	In Lab.			
		Calibration Procedure No.	7	MTS/MECH/WI-23			

25.4 °C

3. Description of UUC

2. Environmental Conditions:

Name :- Digital Tachometer Range :- 5 - 99999 RPM
ke :- LUTRON DT2234C Resolution :- 0.1/1 RPM

*.D No. :- SRL/GMCM/Micro/Reg No.1 Pg 72 Location :- SRL LAB

Temperature:

Type :- Digital Sr No :- DT2234C/012296

4. Reference Standards used for calibration:

Name :- Digital Tachometer

Make / Model :- Amprobe / TACH-10

I.D No./Sr. No. :- MTS/TACH-01 / 18010152

Certificate No. :- CH/21/2610D-01 Calibration Validity :- 25/10/2022

Certified By :- Calibration House (CC-2304)

Range/Uncertainty :- As per Certificate

5. Calibration Results

Mechanical Calibration

Sr.No.	Calibration Point RPM	UUC Reading RPM	Standard Reading	Deviation RPM	Expanded Uncertinity ±RPM
1	10	10.2	10.1	0.1	1.10
2	500	500.4	500.2	0.2	4.50
3	1000	1002	1001	1	4.50
4	5000	5006	5004	2	33.00
5	10000	10014	10010	4	33.00

NOTES:

1. The value measured of uuc & standard are mean of 5 reading.

2.The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution

3. This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.

4. The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.

5. This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.

6. The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

Mr Parshuram M.

Calibration Engineer

SYSTEM SYSTEM

Approved By

Mr. Daulat Shete Technical Manager

End of Certificate

Calibration services for