

CALIBRATION CERTIFICATE

Certificate No	Date of Calibration	Next Calibration Due Date	Certificate Issue Date
MCS-118/22-23	15/04/2022	14/10/2022	22/04/2022

- 1 **CUSTOMER NAME & ADDRESS** : CHIKITSA PATHOLOGY LABORATORY, AHMEDABAD
- 2 **DESCRIPTION OF THE INSTRUMENT CALIBRATED**
 - INSTRUMENT : TABLE TOP CENTRIFUGE
 - MAKE : NUVISION
 - MODEL NO. : NV4N
 - INSTRUMENT IDENTIFICATION NO. : NUVISION- NV4N
 - OPERATING RANGE : 4000 RPM
 - LOCATION OF INSTRUMENT : MACHINE ROOM
- 3 **METHODOLOGY OF CALIBRATION** : The calibration was performed by comparison of UUC Values with Standard values.
- 4 **CALIBRATION PROCEDURE REFERENCE** : MCS/ SCP/ CF-1
- 5 **CALIBRATION ENVIRONMENT** : Temperature 26+/- 2°C
Relative Humidity: 50%
- 6 **UNCERTAINTY OF MEASUREMENT** : The reported uncertainty is at coverage factor k=2, which Corresponds to a coverage probability of approximately 95% for a normal distribution
- 7 **INSTRUMENT/EQUIPMENT USED FOR CALIBRATION**
 - (1) DESCRIPTION : Laser Non-Contact Photo Tachometer
 - MAKE : Lutron DT 2234C
 - SR. No. : S040155
 - (2) DESCRIPTION : UNIVERSAL CALIBRATOR
 - MAKE : SBK INSTRUMENTATION
 - SR. No. : 08.16.034
 - (3) DESCRIPTION : DIGITAL TIMER
 - MAKE : ALFA
 - SR. No. : 1802
- 8 **TRACEABILITY** : (1) Calibration Certificate No.: NCQC-M/010721/22
Dated: 01/07/2021 valid up to 30/06/2022
By NCQC, Ahmedabad.
(2) Calibration Certificate No.: NCQC-E/171221/03
Calibration Dated: 17/12/2021 valid up to 16/12/2022 by NCQC, Ahmedabad
(3) Calibration Certificate No.: NCQC-E/040222/08
Calibration Dated: 04/02/2022 valid up to 03/02/2023 by NCQC, Ahmedabad.

9 CALIBRATION RESULT

Standard Value ** (in RPM)	UUC Value ** (in RPM)	Deviation * (in RPM)	Expanded uncertainty +/- (in RPM)
1000.0	1002.0	2.0	0.20
2500.0	2499.0	-1.0	-0.04
4000.0	4001.0	1.0	0.03

Field Sensor Temperature(in °C)	Master Sensor Ohms	Master Sensor Temperature	Deviation	Expanded Uncertainty
21.4	108.3	21.3	0.1	0.001
22.0	108.5	21.8	0.2	0.001

Parameter/ Range	Nominal Value on DUC (min)	Standard Value			Error (s)
		(min)	(second)	Equivalent value in (S)	
Time	1.0	1.0	0.0	60.3	-0.300
Cal from 1 min to 10 min	5.0	5.0	0.0	300.4	-0.400
	10.0	10.0	0.0	600.5	-0.500

** All readings are mean of 3 values

*Absolute Error of temperature = UUC Value – Standard Value

10 ABBREVIATIONS

: 1) UUC : Unit under Calibration
 : 2) N.A. : Not Available

11 CONDITION OF PRODUCT

: Satisfactory

12 CALIBRATION SITE

: On Site

13 REMARKS

: This Instrument has been calibrated & found to be within
 The permissible error range of +/-1% F.S.

CALIBRATED BY: Pratik Kuralkar
 CERTIFIED BY : Yash Shah


 For, Multitech Control Systems

NOTE: The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement. This document shall not be reproduced except in full without the written approval of MCS. This is the technical information of client only and not for promotion publicity or litigation.

END OF CERTIFICATE