



**CERTIFICATE OF CALIBRATION**

SRF No.	F0124	Certificate No.	FCL/24/F0124-01	ULR No.	CC31032400000689F
Date of SRF	23-08-2024	Date of Cal.	23-08-2024	Next Cal Due	22-08-2025
Issue Date	24-08-2024	Cal Procedure No.	FCL-SOP-THE-01	Reference Std.	DKD-R 5-1
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory
DISCIPLINE-GROUP : Thermal-Temperature				Cal Done At	Onsite

**Customer Name & Full Address:**

M/s. SAMUDAYA AROGYA KENDRA.,  
Hebbal-585312.

**DUC DETAILS**

Nomenclature	Digital Thermometer	Model / Type	NA
Make	Multi Thermometer	Range	-50 to 300 °C
Serial. No	NA	Resolution	0.1 °C
ID No	ICTC/CHC/Hebbal/Thermometer-01	Accuracy	NA
Location	ICTC Lab		

**STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS**

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
4 Wire RTD Sensor With DMM	Tempens & Yokogawa / PT - 100X1, Simplex & CA71	2113016632 & 2267021/FCL-TH-02 & FCL-TH-02A	TMS/24/64-01	15-03-2025

Temperature Bath Calibrator used as Source

Environmental Condition : Temperature : 25.4 °C Humidity: 52 %RH

Calibration Results: All Readings are in °C

SI No	Set Temp	STD Readings	DUC Readings	Observed Deviation	Computed Measurement Uncertainty (±)
1	-30	-30.325	-30.6	-0.275	0.8
2	-10	-10.241	-10.4	-0.159	0.8
3	0	0.176	0.2	0.024	0.8
4	50	50.353	50.6	0.247	0.8
5	100	100.268	100.4	0.132	0.8
6	200	200.435	200.8	0.365	0.8
7	300	300.379	300.9	0.521	0.8

**Remarks :**

- The Measurement Uncertainty is estimated at a confidence level of 95.45% with a coverage factor k=2.
- This Calibration Certificate refers only to the Particular item submitted for calibration. Calibration points given as per customer request.
- NABL Accredited Calibration Lab as per ISO/IEC 17025:2017 with vide Certificate No:CC-3103
- The Usage of NABL symbol is as per NABL guidelines given in NABL 133. The Calibration Certificate relates only to the above DUC.
- Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal.
- Standard maintained are traceable to National / International Standard through accredited laboratories.

Calibrated by

Rajashekar

(Calibration Engineer)



Authorized by

Vinay Kumar

(CEO)

\*\*\*\*\*End of Calibration Certificate\*\*\*\*\*



**CERTIFICATE OF CALIBRATION**

SRF No.	F0124	Certificate No.	FCL/24/F0124-02	ULR No.	CC310324000000690F
Date of SRF	23-08-2024	Date of Cal.	23-08-2024	Next Cal Due	22-08-2025
Issue Date	24-08-2024	Cal Procedure No.	FCL-SOP-MECH-02	Reference Std.	SANAS-TR 45-01
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory
DISCIPLINE-GROUP : MECHANICAL - Acceleration and Speed				Cal Done At	Onsite

**Customer Name & Full Address:**

M/s. SAMUDAYA AROGYA KENDRA.,  
Hebbal-585312.

**DEVICE UNDER CALIBRATION (DUC) DETAILS**

Nomenclature	Analog Centrifuge	Model	--
Make	eitek	Range	3500 RPM
Serial. No	CHC-181	Resolution	-- RPM
ID No	ICTC/CHC/Hebbal/Centrifuge-01	Accuracy	NA
Location	ICTC Lab		

**STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS**

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
Digital Tachometer	Lutron & DT2236	Q652919	EQN/CRF/24080065	07-08-2025

Environmental Condition : Temperature : 20.4 °C Humidity: 42 %RH

MODE :NON CONTACT

**Calibration Results:**

All Readings are in RPM

SI.NO	DUC Set	Standard Readings	Observed Deviation	Computed Measurement Uncertainty (±) in %
1	1	1013	--	2.50
2	2	1874	--	2.50
3	3	2456	--	2.50
4	4	2961	--	2.50
5	5	3489	--	2.50

**Remarks :**

1.The Measurement Uncertainty is estimated at a confidence level of 95.45% with a coverage factor k=2.

Calibrated by

  
Rajashekar  
Calibration Engineer



Authorized by

  
Vinay Kumar  
(CEO)

\*\*\*\*\*End of Calibration Certificate\*\*\*\*\*

## CERTIFICATE OF CALIBRATION

TVCSP/F/7.8/01		Page 1 of 1	
ULR No.	CC393524000004199F	Date of Issue	24-08-2024
Certificate No.	TVCSP/24/08/0991-01	Recom. Due Date	22-08-2025
Date of Calibration	23-08-2024	Customer Details	SRF No. : 0991
M/s.SAMUDAYA AROGYA KENDRA., Hebbal-585312.		Calibrated at	LAB
		Date of Receipt	23-08-2024
		Cond. On Receipt	Satisfactory
Details of Test Instrument:			
Description	Digital Timer	Model No.	HX102-1
Range	0 to 60 Min	Serial No	--
Least Count	0.01sec	Identification No.	ICTC/CHC/Hebbal/Timer-01
Make	HUAXUAN	Accuracy	--
Working range	--	Location	ICTC LAB
Details of Standard Used			
Name	Digital Time Calibrator	Certificate No.	HT/CC/240201-18/001
		Valid upto	31-01-2025
		calibrated at	CC-2151
Work Instruction	WI-E-01		
Environmental Details	Temperature: 25±4 °C	Relative Humidity:	45-75 % RH

### ELECTROTECHNICAL CALIBRATION

(Time & Frequency)

Calibration Results

Results of Calibration				
Sl. No.	Standard Reading (hr:min:s:ms)	UUC Reading (hr:min:s:ms)	Error (sec)	Measurement Uncertainty ± (sec)
01	00:01:00.01	00:01:00.00	-0.01	0.08
02	00:03:00.02	00:03:00.00	-0.02	0.28
03	00:05:00.02	00:05:00.00	-0.02	0.17
04	00:10:00.03	00:10:00.00	-0.03	0.13
05	00:15:00.04	00:15:00.00	-0.04	0.60
06	00:20:00.03	00:20:00.00	-0.03	0.61
06	00:30:00.03	00:30:00.00	-0.03	0.63
06	01:00:00.04	01:00:00.00	-0.04	0.74

#### Remarks:-

- The above DUC was Calibrated at On-site.
- UUC is defined as Unit Under Calibration
- Reading given was the average of 3 Measurements
- The measurement confidence level is 95.45%
- The Calibration Certificate shall not be reproduced except in full without written approval of TVCSPL
- The above Expanded Uncertainty includes Repeatability, Resolution & Uncertainty of Measurement
- Calibration of the UUC are traceable to SI units
- The above results relate only to the item calibrated

Calibrated by :  
*M. Arun Kumar*  
M.Arun Kumar  
(Calibration Engineer)



Authorised by:  
*Mr. Anand Menoharan*  
Mr. Anand Menoharan  
(QM & TM)

...redefining the true value

92, S.R.B Nagar Main Road,  
Chennai - 600 099.  
Tamil Nadu, India.

Ph: 97102 22422 / 522 / 622  
Cell: 94440 38060  
Email : calibration@live.com  
www.truevaluecalibration.com  
CIN No :U29268TN2015PTC103428



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