

CALIBRATION CERTIFICATE

FCL/FM/CL/06

Name of the Customer : ICTC PHC.,	Page No.
Address Tagadur.	1 of 1

Customer Reference:

SRF No. :2514	SRF Date :20-09-2023
Certificate No. :FCL/23/2514-01	Calibrated On :20-09-2023
ULR No. :CC310323000013263F	Recommended Cal. Due :19-09-2024

Details of device under calibration (DUC):

Description :ILR Refrigerator	Cal. Procedure : FCL-SOP-THE-01
Make :Godrej	DUC received on :20-09-2023
Model / Type :GUR225AC	Status on receipt :Satisfactory
SI No. :NA	Loc. :Lab
ID No. :ILR(REF)-01	Certificate Issue Date :21-09-2023

Environmental Conditions:

Temperature : 24 ± 4 °C	Humidity : 34% RH to 75% RH
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Standards used for Calibration and Traceability Details:

Sl. No.	Nomenclature	Make	Sl. No./ID No	Traceable to	Validity
1	4 Wire RTD SENSOR with Handy Calibrator	Yokogawa-CA71,Tempens	23000079& TIN5010	TMS/23/56-01	03-Apr-24

Note:

- The Calibration Certificate relates only to the above DUC.
- Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal
- The usage of NABL symbol is as per NABL guidelines given in NABL 133.
- Standard maintained are traceable to National / International Standard through accredited laboratories.

Results:

Sl. No.	Range/LC	DUC Reading set in °C	STD Measured Reading in °C	Error Observed in °C	Measurement Uncertainty ± in °C
1	2 to 8°C	6.3	6.1	0.2	0.8

1. Measurement Uncertainty reported is at 95.45 % confidence level K=2


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

Calibrated By



Rajashekar
(Calibration Engineer)


Authorised Signatory



Vinay Kumar.M
(Quality Manager)



NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 with vide Certificate No: CC-2291

CALIBRATION CERTIFICATE

SS/ FF-20/ v1

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1 Name and Full Address of Customer : M/s.ICTC PHC.,
 Tagadur.

2 Customer Reference
 2.1 SRF No : A4204 Date of Receipt : 20 September 2023
 2.2 Certification No. : SS/23/A4204-02 ULR No : CC229123000016162F
 2.3 Date of Calibration : 20 September 2023 Date of issue : 25 September 2023
 2.4 Next Calibration Due : 19 September 2024


3 Details Of Device Under Calibration(DUC).
 3.1 Nomenclature : Micro Pipette
 3.2 Make : -- Model : --
 3.3 S.I.No : -- ID. No. : Pipette-02
 3.4 No.of Pages : 2 Range : 100-1000 µl
 3.5 Calibration Procedure No. : SOP-M&V-04 LC: 10 µl
 3.6 DUC Condition : Satisfactory
 3.7 Calibration done at : Mech Lab, Sarvashree
 3.8 Discipline - Group : Mechanical - Volume
 Environmental Condition
 Temperature : 21.1 °C Humidity : 46 %RH

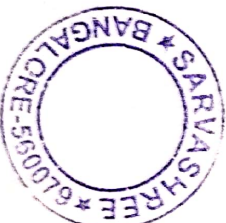
5 Standards Used for calibration


Sl. No.	Nomenclature	Make & Model	SI. No	Traceable Cert. No.	Validity
1	Electronic Balance	Radweg- AS82/220.R2	585650	TVCSPL 23/03/482-02	14-Mar-24

6 Conclusion / Remarks/Notes:

6.1. Kindly refer to Note (s) section mentioned as below.

Calibrated By

 Abhishek
 (Calibration Engineer)



Authorised By

 Nibushad N
 (Lab In-charge)

GAL CERT. NO. SS/23/A4204-02 ULR No : CC229123000016162F Page No. 2 of 2

Range : 100-1000 μ l

LC : 10 μ l

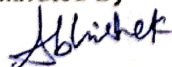
Sl. No.	Micropipette Set Volume in μ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in μ l	Average Volume in μ l	Systematic Error, \pm in %	Random Error, in \pm in %
1	100	0.09992	100.217	100.342	0.34	0.20
2		0.09999	100.288			
3		0.10011	100.408			
4		0.10014	100.438			
5		0.10006	100.358			
6		0.09988	100.177			
7		0.10011	100.408			
8		0.10021	100.508			
9		0.10055	100.849			
10		0.10030	100.598			
11	500	0.50028	501.769	501.662	0.33	0.05
12		0.50033	501.819			
13		0.50026	501.749			
14		0.50012	501.608			
15		0.49988	501.368			
16		0.50048	501.969			
17		0.50032	501.809			
18		0.49988	501.368			
19		0.49985	501.338			
20		0.49964	501.127			
21	1000	1.00010	1003.076	1002.815	0.28	0.03
22		1.00015	1003.126			
23		0.99955	1002.525			
24		0.99984	1002.815			
25		1.00015	1003.126			
26		0.99955	1002.525			
27		1.00015	1003.126			
28		0.99955	1002.525			
29		0.99984	1002.815			
30		0.99952	1002.494			

Measurement Uncertainty : \pm 0.58 μ l

Conclusion / Remarks:

- 1 Measurement uncertainty is at confidence level 95.45% which corresponds to a coverage factor of k=2
- 2 Calibration is performed as per ISO 8655 - 6 : 2022 (E)
- 3 Gravimetric Method is adopted for calibration

Calibrated By



Abhishek

(Calibration Engineer)



*****End of Certificate*****

Authorised By



Noushad N
(Lab In-charge)



NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 with vide Certificate No: CC-2291

CALIBRATION CERTIFICATE

SSI/FF-201 v1

Page No. 1 of 2

1 Name and Full Address of Customer : M/s.ICTC PHC.,
 Tagadur.

2 Customer Reference

2.1 SRF No : A4204
 2.2 Certification No. : SS/23/A4204-01
 2.3 Date of Calibration : 20 September 2023
 2.4 Next Calibration Due : 19 September 2024

Date of Receipt : 20 September 2023
 ULR No : CC229123000016161F
 Date of issue : 25 September 2023

3 Details Of Device Under Calibration(DUC).

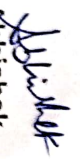
3.1 Nomenclature : Micro Pipette
 3.2 Make : --
 3.3 Sl.No : --
 3.4 No. of Pages : 2
 3.5 Calibration Procedure No : SOP-M&V-04
 3.6 DUC Condition : Satisfactory
 3.7 Calibration done at : Mech Lab, Sarvashree
 3.8 Discipline - Group : Mechanical - Volume

Temperature : 21.2 °C
 Humidity : 49 %RH


5 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	Sl. No	Traceable Cert. No.	Validity
1	Electronic Balance	Radweg- AS82/220.R2	585650	TVCSPL 23/03/482-02	14-Mar-24

6 Conclusion / Remarks/Notes:
 6.1. Kindly refer to Note (s) section mentioned as below.

Calibrated By

 Abhishhek
 (Calibration Engineer)



Authorised By

 Nubshad N
 (Lab In-charge)

NOTE: 1. Measurement Uncertainty reported is at approx 95.45% confidence level with coverage factor k=2. 2. Publication or reproduction of this Certificate in any form other than by complete set of the whole report & in the language written, is not permitted without the written consent of Sarvashree. 3. The Calibration Certificate relates only to the above DUC. DUC indicates Device Under Calibration. 4. Corrections/Erasing invalidate the calibration certificate. 5. All Standards / Masters used for calibration are traceable to National / International Standards. 6. Any error in this cert should be brought to our knowledge within 45 days from the date of this certificate. 7. Results reported are valid at the time of and under stated conditions of measurements. 8. Conformity statement is given only when requested by the customer. 9. NABL-133 Guidelines are adopted for use of NABL Symbol.