



NABL Accredited Laboratory

NORTH EAST CALIBRATION & TESTING LABORATORY

Under the scheme of MSME Govt. of Assam



CALIBRATION CERTIFICATE

ULR No:-CC30632100003127F

Receipt date of item :- 08/09/2021
 Job No :- NECTL/M/2021/2221
 Item identification No :- NECTL/OS/09/2221-1
 Customer Name & Address :- Christian Institute of Health science and Research, 4th mile, Dimapur
 P.B. No.-31, P.O.-NRTC, Nagaland
 Certificate Number :- NECTL/M/2021/CAL-2260
 Date of Calibration :- 08/09/2021
 Issue date of calibration Certificate :- 20/09/2021
 Next calibration due date :- 08/09/2022

Instrument Details

Calibrated Item :- Temperature Indicator of Deep Freeze

Make:-Vest SI No:- 6092

Range:-20°C

Environmental Condition

Temperature:- 20.5°C Humidity:- 56% Calibration Done:- On-site

Standard Details:-

Sl. No.	Name	ID No.	Range	Accuracy	Certificate No.	Validity
1.	4 wire RTD	1016	-200°C to 850°C	+/-0.1°C	TL/020/794.2.1	02/10/2021
2.	Multifunction process calibrator	4267751	0-25mA	0.02% Rdg + 2 LSD	TSC/21-22/6663-7	18/08/2022

Traceability

- 1. To National Standard Through NABL Lab code CC-2840
- 2. To National Standard Through NABL Lab code CC-2231

Procedure No:- NECTL/GHY/SOP/TH004

Method used:- Comparison method as per Standard

Calibration Data:-

Parameter	Desired range in DUC	Sl. No	Standard readings	MPE	Uncertainty (±)	Remarks
Temperature In °C	-20°C	1	-19.89	-18°C	0.175	Pass
		2	-19.92			
		3	-20.05			
		4	-20.12			
		5	-20.15			

- Acceptance criteria:-Standard readings ≤ Maximum Permissible Limit (MPE)
- Conformity of the item is given as per decision rule of NECTL

Uncertainty Measurement: The reported expanded uncertainty of measurement is calculated at 95% C.L with coverage factor k=2

Note: 1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.

- The Item received in good condition at the time of calibration/ testing.
- The results reported relate only to the above calibrated item.
- The reproduction of a part or an abstract thereof, has to be got specifically approved from Director, NECTL, Guwahati.
- Calibration certificate without signature and seal are not valid.
- All calibration are done in S.I units and it is in accordance to ISO: IEC:17025:2017 unless it is specified.
- NECTL is not liable for any change in calibration data & performance specification on account of malfunctioning of Standard/instruments/Equipments covered by this certificate due to damage caused to its after issuance of this certificate.

Calibrated by

Nisha Kalita
 Nisha Kalita
 Technical officer

Authorized Signatory

M. Kr. Adhikary
 M. Kr. Adhikary
 QM

Page:1/1

REGD. OFFICE

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 Website : www.nectl.co

CALIBRATION CERTIFICATE

ULR No:-CC306321000003158F

Receipt date of item :- 08/09/2021
Job No :- NECTL/M/2021/2221
Item identification No :- NECTL/OS/09/2221-08
Customer Name & Address :- Christian Institute of Health science and
Research.4th mile, Dimapur
P.B. No.-31, P.O.-NRTC,Nagaland

Certificate Number :- NECTL/M/2021/CAL-2295
Date of Calibration :- 08/09/2021
Issue date of calibration Certificate :- 20/09/2021
Next calibration due date :- 08/09/2022

Instrument Details Calibrated Item :- Temperature Indicator of Deep Freeze
Make:-Frost SI No:- NA Range:- -20°C Accuracy:- ±1°C
Environmental Condition- Temperature:- 20.5°C Humidity:- 56% Calibration Done:- On-site

Standard Details:-

Sl. No.	Name	ID No.	Range	Accuracy	Certificate No.	Validity
1.	4 wire RTD	1016	-200°C to 850°C	+/-0.1°C	TL/020/794.2.1	02/10/2021
2.	Multifunction process calibrator	4267751	0-25mA	0.02% Rdg + 2 LSD	TSC/21-22/6663-7	18/08/2022

Traceability

- : - 1. To National Standard Through NABL Lab code CC-2840
2. To National Standard Through NABL Lab code CC-2231
Method used:- Comparison method as per Standard

Procedure No:- NECTL/GHY/SOP/TH004

Calibration Data:-

Parameter	Desired range in DUC	Sl. No	Standard readings	Deviation(±)	Uncertainty(±)	Remarks
Temperature In °C	-20°C	1	-19.89	0.5°C (Max)	0.175	Pass
		2	-19.92			
		3	-20.05			
		4	-20.12			
		5	-20.15			

- **Acceptance criteria:-Observed deviation ≤ Accuracy of DUC**
- **Conformity of the item is given as per decision rule of NECTL**

Uncertainty Measurement: The reported expanded uncertainty of measurement is calculated at 95% C.L with coverage factor k=2

Note:

1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.
2. The Item received in good condition at the time of calibration/ testing.
3. The results reported relate only to the above calibrated item.
4. The reproduction of a part or an abstract thereof, has to be got specifically approved from Director, NECTL, Guwahati.
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Page:1/1