



# GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

Email : globaltechnical007@gmail.com

Mob : 9921239827 / 7276302207 / 9028888728



CC-2957

## CALIBRATION CERTIFICATE

**1.CUSTOMER** :-  
**ICTC CENTRE**  
 Community Health Centre, PERNEM, GOA

Ambient Temp. (°C) :- 21 to 40  
 Relative Humidity (%RH) :- 30 to 75  
 Location of calibration :- On Site  
 Condition of Item :- Ok

Page No. :- 1 of 1  
 SRF No :- GTS/220927/04  
 Certificate No. :- GTS/220927/04-002  
 Date of Received :- 27.09.2022  
 Date of Calibration :- 27.09.2022  
 Next Calibration Due On :- 26.09.2023  
 Issue Date :- 03.10.2022  
 Calibration method No. :- TH-WI-02  
 ULR No :- CC295722000010154F

### 2. Description of Item

Name :- TIWS (Refrigerator) Range :- 0 to -20/2 to 8 °C  
 Id No :- GSACS/NACP-IV/ICTC/02/1-2/PERNEM/02 Least Count :- 1 °C  
 Make :- HAIER Location :- ICTC LAB  
 Type :- --  
 Sr No :- BS0337E720ITJC50287  
 Dept. :- GSACS

### 3.Details of Equipment used for calibration

| Name                              | Certificate No. | Certified By                 | ID No.     | Calibration Validity |
|-----------------------------------|-----------------|------------------------------|------------|----------------------|
| Precision Thermometer With Sensor | NI/2205/059/002 | Nishitronics Instrumentation | GTS/PTH/01 | 22.05.2023           |

### \*Thermal Calibration

### 4.Calibration Results :-

| Calibration Points °C | Corrected Standard Reading °C | UUC Reading °C | Error in °C | Expanded Uncertainty in ± °C |
|-----------------------|-------------------------------|----------------|-------------|------------------------------|
| -20                   | -20.14                        | -20            | 0.14        | 0.50                         |
| 2                     | 1.75                          | 2              | 0.25        | 0.50                         |
| 5                     | 4.79                          | 5              | 0.21        | 0.50                         |
| 8                     | 7.86                          | 8              | 0.14        | 0.50                         |

### Note:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$ , which corresponds to a coverage probability of approximately 95.45% for normal distribution
- This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- Calibration point were selected as per customer specifications.
- This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".
- Type of immersion : Partial
- The Instruments used for calibration are traceable to National/International standards and their Calibrations are valid.

Calibrated By

Rohit  
Calibration Engineer  
Rohit.L



Approved By

Swarnil Bhagwat  
Technical Manager

End of Certificate



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CC-2957

## CALIBRATION CERTIFICATE

|                                                            |                         |                        |                       |
|------------------------------------------------------------|-------------------------|------------------------|-----------------------|
| <b>1.CUSTOMER</b> :-                                       | Page No.                | :- 1 of 1              |                       |
| <b>ICTC CENTRE</b><br>Community Health Centre, PERNEM, GOA | SRF No                  | :- GTS/220927/04       |                       |
|                                                            | Certificate No.         | :- GTS/220927/04-003   |                       |
|                                                            | Date of Received        | :- 27.09.2022          |                       |
|                                                            | Date of Calibration     | :- 27.09.2022          |                       |
|                                                            | Next Calibration Due On | :- 26.09.2023          |                       |
| Ambient Temp. (°C)                                         | :- 25±4                 | Issue Date             | :- 03.10.2022         |
| Relative Humidity (%RH)                                    | :- 30 to 75             | Calibration method No. | :- TH-WI-02           |
| Location of calibration                                    | :- In Lab               | ULR No                 | :- CC295722000010155F |
| Condition of Item                                          | :- Ok                   |                        |                       |

### 2. Description of Item

|       |                             |             |                 |
|-------|-----------------------------|-------------|-----------------|
| Name  | :- Digital Thermometer      | Range       | :- -30 to 50 °C |
| Id No | :- GSACS/NACP-IV/12-13/1173 | Least Count | :- 0.1 °C       |
| Make  | :- TFA                      | Location    | :- ICTC LAB     |
| Type  | :- Digital                  | Sr No       | :- --           |
|       |                             | Dept.       | :- GSACS        |

### 3.Details of Equipment used for calibration

| Name                              | Certificate No. | Certified By                 | ID No.     | Calibration Validity |
|-----------------------------------|-----------------|------------------------------|------------|----------------------|
| Precision Thermometer With Sensor | NI/2205/059/002 | Nishitronics Instrumentation | GTS/PTH/01 | 22.05.2023           |

### \*Thermal Calibration

| Calibration Points °C | Corrected Standard Reading °C | UUC Reading °C | Error in °C | Expanded Uncertainty in ± °C |
|-----------------------|-------------------------------|----------------|-------------|------------------------------|
| -20                   | -20.19                        | -20            | 0.19        | 0.50                         |
| 2                     | 1.81                          | 2              | 0.19        | 0.50                         |
| 5                     | 4.87                          | 5              | 0.13        | 0.50                         |
| 8                     | 7.92                          | 8              | 0.08        | 0.50                         |

#### Note:

- 1)The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".
- 6) Type of immersion : Partial
- 7)The Instruments used for calibration are traceable to National/International standards and their Calibrations are valid.

Calibrated By  
Rohit  
Calibration Engineer  
Rohit.L



Approved By  
  
Technical Manager  
Swapnil Bhagwat

End of Certificate

RF-55/01



CC-2294

Nishitronics  
Instrumentation

We work for Customer's Satisfaction

## CALIBRATION CERTIFICATE

|                            |                             |                           |                       |
|----------------------------|-----------------------------|---------------------------|-----------------------|
| CUSTOMER :-                | Global Technical Services   | Page No. :-               | 1 of 1                |
|                            | Sec No. 25, Plot No. 49/3,  | ULR No. :-                | ULR-CC22942200002372F |
|                            | L.I.G. Colony, Pradhhikaran | Discipline :-             | Thermal Calibration   |
|                            | Nigdi, Pune - 411044.       | Certificate No. :-        | NI/2205/059/002       |
| Amb. Temp :-               | 25 ± 2 °C                   | Date of issue :-          | 24/05/2022            |
| Rh. :-                     | 45 to 75 %RH                | Date of receipt :-        | 23/05/2022            |
| Location of calibration :- | LAB                         | Date of calibration :-    | 23/05/2022            |
| Characteristic and :-      | OK                          | Cal. Req No. :-           | NI/2205/059/002       |
| Condition of items         |                             | Next Due Date :-          | 22/05/2023            |
|                            |                             | Parameter :-              | Temperature           |
|                            |                             | Calibration method no. :- | NI / CP / T / 01      |

## Details of Items

|             |                       |             |                |
|-------------|-----------------------|-------------|----------------|
| Name :-     | Precision Thermometer | Range :-    | -100 to 400 °C |
| Make :-     | CENTER                | L.C. :-     | 0.01 °C        |
| Model :-    | 375                   | Type :-     | --             |
| ID. No. :-  | GTS/PTH-01            | Accuracy :- | Not Specified  |
| Part No. :- | 14081114              |             |                |

## Details of Equipment used for Calibration

|                    |                             |
|--------------------|-----------------------------|
| Name :-            | SSPRT WITH INDICATOR        |
| Calibrated by :-   | Godrej & Boyce Mfg.Co. Ltd. |
| Certificate No. :- | M-200608-3-1                |
| Validity :-        | 07/06/2022                  |

## OBSERVATION

| Cal. Point<br>°C | Std. Reading<br>°C | UUC Reading<br>°C | Error In<br>°C | Expanded<br>Uncertainty |
|------------------|--------------------|-------------------|----------------|-------------------------|
| -38              | -37.921            | -37.98            | -0.059         | ± 0.06 °C               |
| 0                | 0.050              | -0.22             | -0.270         | ± 0.06 °C               |
| 100              | 99.944             | 99.51             | -0.434         | ± 0.08 °C               |
| 200              | 200.089            | 199.45            | -0.639         | ± 0.08 °C               |
| 400              | 400.257            | 399.41            | -0.847         | ± 0.12 °C               |

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k = 2

Remarks :-

- 1) Result are related only to the item calibrated .
- 2) This certificate refers only to the particular items submitted for calibration .
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard.
- 6) Readings given above are as on received condition of an instrument.

Calibrated by

*P.B. Desai*  
( P.B. Desai )  
( Tech. Asst )

Authorized Signatory

*V.B. Hingmire* / ( S.B. Hingmire )  
( Technical Manager )

Form No : NI/F/7.8/T/01

Form Rev. No. : 0

Effective Form Date:20/11/2019

Issue No : 03

Issue Date:20/11/2019