

# S.M. ENTERPRISES

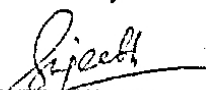
(Calibration and Testing of Electrical & Precision Instruments)

Office: Calibration Coming up NABL Plot No. 12, Sanjeeviah Nagar, Co-operative Society, Beside Tadband Hanuman Temple, Sikh Village, Secunderabad-500 009, T.S. (040) 27840097 Cell : 9948020798, 9948291008, 9948292008, 9948293008, 9948294008, 9948284719, Email: msudheer\_95@yahoo.com, SME\_003@YAHOO.IN.  
url: www.smenip.com

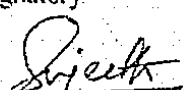
## CALIBRATION CERTIFICATE

|  |  |                                     |                    |
|--|--|-------------------------------------|--------------------|
| SME/QM/FF/44   | ULR NO : CC24712100000821F             |                                     | Page : 1 of 2      |
| Certificate No.:   | SME/RSDTH/707                          | Date of Issue :                     | 20-Nov-2021        |
| Date of Calibration :  | 20-Nov-2021                            | Recom. Due Dt :                     | 19-Nov-2022        |
| Name and Address of the Customer :   |  | Customer Reference :                |                    |
| M/s. RAO'S STANDARD<br>DIAGNOSTIC PVT. LTD.<br>Kukatpally, Hyderabad, T.S. |  | SRF No :                            | 093                |
|  |  | Calibrated at :                     | In-House           |
|  |  | Date of Receipt :                   | 20-Nov-2021        |
|  |  | Condition of item :                 | GOOD               |
| Field of Calibration :   |  | Thermal                             |                    |
| Details of Instrument: (UUC / DUC)   |  |                                     |                    |
| Description :  | DIGITAL THERMO METER -<br>REFRIGERATOR | Make :                              | ACETEQ             |
| Range :  | -10 °C to 50 °C   10 to 99%Rh          | Model :                             | ACETEQ-1           |
| Accuracy :   | ± 1 °C & ± 5 %RH                       | ID NO :                             | RSD/BME/LAB/DTM/01 |
| Resolution :   | 0.1 °C & 1 % Rh                        | Location :                          | Ground floor       |
| Master Instrument Details :  |  |                                     |                    |
| Name   | ID No.                                 | Valid Upto:                         | Traceability       |
| Digital Temperature Humidity<br>Meter                                      | SME/THM/05<br>SME/THM/05/1             | Dt: 07/09/2021<br>DueDt: 07/09/2022 | TSC/21-22/7670-1   |
| Temperature & RH Bath  | Used as Source                         |                                     |                    |
| Work Instruction No :  |  | SME/QM/WI/05                        |                    |
| Calibration Environment :  |  |                                     |                    |
| Temperature :  | 24.2 °C                                | Relative Humidity :                 | 40.2% Rh           |

Checked By:

  
M. SUJEEET KUMAR  
Technical Manager

Authorised Signatory

  
SUDHEER M. KUMAR / M. SUJEEET KUMAR  
QM & MD / D.QM & TM

Service Tax No.: AFVPS4924FST001, PAN No.: AFVPS4924F

A Approved Laboratory of ISO 9001-2008 / Traceable To ETDC/ NPL / NABL (Govt. of India)

Test EQUIPT/STANDARDS USED ARE TRACEABLE TO NATIONAL STANDARDS

# S.M. ENTERPRISES

(Calibration and Testing of Electrical & Precision Instruments)

Office: Calibration Coming up NABL Plot No. 12, Sarjapura rd Bengal. Co-operative Society, Birtala Lakshmi Nagar, Bengal. Contact: Sarjapur Road 500 609 T.S. (040) 27840697, Cell: 9348020799, 9348291003, 9348207003, 9348291003, 9348291003, 9348204719. Email: sm@sm.com, sm@sm.com, sm@sm.com  
 www.sm.com

|                  |               |              |
|------------------|---------------|--------------|
| Certificate No.: | SME/RSDTH/707 | Page: 2 of 2 |
|------------------|---------------|--------------|

| CALIBRATION RESULT      |                  |              |           |             |
|-------------------------|------------------|--------------|-----------|-------------|
| Temperature Calibration |                  |              |           |             |
| Sr. No                  | Standard Reading | Test Reading | Error (±) | Uncertainty |
|                         | °C               | °C           | °C        | (±) °C      |
| 1                       | 2.2              | 2.5          | 0.3       | 2.6         |
| 2                       | 4.3              | 4.1          | 0.2       | 2.6         |
| 3                       | 8.4              | 8.7          | 0.3       | 2.6         |
| 4                       | 10.5             | 10.7         | 0.2       | 2.6         |

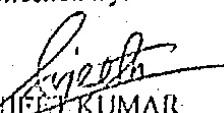
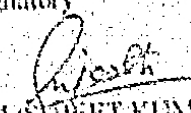
  

| Humidity Calibration @ ambient Temperature |                  |              |       |             |
|--|------------------|--------------|-------|-------------|
| Sr. No                                     | Standard Reading | Test Reading | Error | Uncertainty |
|  | %RH              | %RH          | %RH   | (±) %RH     |
| 1  | 30.4             | 31           | 0.6   | 6.6         |
| 2  | 50.4             | 51           | 0.6   | 6.6         |
| 3  | 75.1             | 74           | 1.1   | 6.6         |
| 4  | 85.1             | 84           | 1.1   | 6.6         |
| 5  | 90.2             | 92           | 1.8   | 6.6         |

**Note:**

- The above UUC/DUC was Calibrated at Lab.
- Definition of UUC / DUC : Unit under Calibration / Device under Calibration.
- The reported Expanded Uncertainty is calculated at 95.45 % with covarger factor  $k = 2$ .
- Test reading given was the average of 5 Measurements.
- The report shall not be reproduced in full/part without prior permission of S.M Enterprises.
- The report refers only to particular item(s) submitted for calibration.
- The calibration results reported are valid at the time of and under the stated conditions of the measurements.
- The Equipment was Calibrated without any adjustment.
- The above Expanded Uncertainty includes Repeatability, Stability, Resolution & Uncertainty of Measurements.
- S.M Enterprises is not liable for any change in calibration data & performance specifications on account of malfunctioning of Standard / instrument / Equipments covered by this report due to damage caused to it after issuance of this report.
- S.M Enterprises is not liable for any change in calibration data & performance specifications on account of malfunctioning of Standard / instrument / Equipments covered by this report due to damage caused to it after issuance of this report.
- All Precautions have been taken for any error or omission while calibrating the instruments and issuing this certificate. However S.M Enterprises shall not be liable for any loss or liability that may be arised to any party in this regards.
- The Equipments user for Calibration were Calibrated and traceable to National / International Standards.

END OF CERTIFICATE

|  |  |
|--|--|
| Checked By:<br><br>M. SUJETH KUMAR<br>Technical Manager | Authorised Signatory<br><br>SUDHEER M. KUMAR / M. SUJETH KUMAR<br>QM & MID / D. QM & TM |
|--|--|

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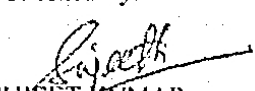
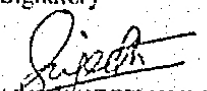
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url: www.smenlp.com

## CALIBRATION CERTIFICATE

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|--|--|-------------------------------------|-------------------|
| SME/QM/FF/44   | ULR NO : CC247121000000822F                |                                     | Page : 1 of 2     |
| Certificate No.:   | SME/RSDTH/708                              | Date of Issue :                     | 20-Nov-2021       |
| Date of Calibration :  | 20-Nov-2021                                | Recom. Due Dt :                     | 19-Nov-2022       |
| Name and Address of the Customer :   |  | Customer Reference :                |                   |
| M/s. RAO'S STANDARD<br>DIAGNOSTIC PVT. LTD.<br>Kukatpally, Hyderabad, T.S. |  | SRF No :                            | 093               |
|  |  | Calibrated at :                     | In-House          |
|  |  | Date of Receipt :                   | 20-Nov-2021       |
|  |  | Condition of item :                 | GOOD              |
|  |  | Field of Calibration :              | Thermal           |
| Details of Instrument: (UUC / DUC)   |  |                                     |                   |
| Description :  | DIGITAL THERMOMETER<br>(Refrigerator Temp) | Make :                              | ACETEQ            |
| Range :  | -10 °C to 50 °C   10 to 99%Rh              | Model :                             | DC-3              |
| Accuracy :   | ± 1 °C & ± 5 %RH                           | ID NO :                             | RSD/BME/LAB/DT/02 |
| Resolution :   | 0.1 °C & 1 % Rh                            | Location :                          | Ground floor      |
| Master Instrument Details :  |  |                                     |                   |
| Name   | ID No.                                     | Valid Upto:                         | Traceability      |
| Digital Temperature Humidity<br>Meter                                      | SME/THM/05<br>SME/THM/05/1                 | Dt: 07/09/2021<br>DueDt: 07/09/2022 | TSC/21-22/7670-1  |
| Temperature & RH Bath  | Used as Source                             |                                     |                   |
| Work Instruction No :  |  | SME/QM/WI/05                        |                   |
| Calibration Environment :  |  |                                     |                   |
| Temperature :  | 24.2 °C                                    | Relative Humidity :                 | 40.2% Rh          |

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Certificate No.: SME/RSDTH/708 Page : 2 of 2

## CALIBRATION RESULT

| Temperature Calibration |                    |                    |                    |                              |
|-------------------------|--------------------|--------------------|--------------------|------------------------------|
| Sr. No                  | Standard Reading   | Test Reading       | Error ( $\pm$ )    | Uncertainty                  |
|                         | $^{\circ}\text{C}$ | $^{\circ}\text{C}$ | $^{\circ}\text{C}$ | ( $\pm$ ) $^{\circ}\text{C}$ |
| 1                       | - 2.2              | - 2.3              | 0.1                | 2.6                          |
| 2                       | - 5.3              | - 5.2              | 0.1                | 2.6                          |
| 3                       | - 8.4              | - 8.6              | 0.2                | 2.6                          |
| 4                       | 10.5               | 10.5               | 0.0                | 2.6                          |

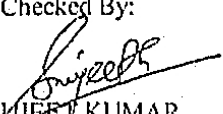
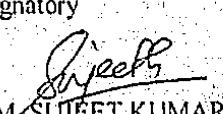
## Humidity Calibration @ ambient Temperature

| Sr. No | Standard Reading | Test Reading | Error | Uncertainty   |
|--------|------------------|--------------|-------|---------------|
|        | %RH              | %RH          | %RH   | ( $\pm$ ) %RH |
| 1      | 30.4             | 32           | 1.6   | 6.6           |
| 2      | 50.4             | 52           | 1.6   | 6.6           |
| 3      | 75.1             | 73           | 2.1   | 6.6           |
| 4      | 85.1             | 83           | 2.1   | 6.6           |
| 5      | 90.2             | 93           | 2.8   | 6.6           |

### Note:

1. The above UUC/DUC was Calibrated at Lab.
2. Definition of UUC / DUC : Unit under Calibration / Device under Calibration.
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