

**MEASURE TECHNO LAB**2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,  
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LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in**CALIBRATION CERTIFICATE OF HOT AIR OVEN**

CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / CPCB / TOL / R13 / 07 - 23

ULR - CC254523000021621F

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1.0 Service Request No.: MTL / 24B / 07 / 23 - 24

1.1 Issued to: M/s. Central Pollution Control Board,  
Parivesh Bhawan, East Arjun Nagar,  
Delhi - 110032.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Hot Air Oven	b) Code No.:	TOL / OVEN - 04
	c) SI No.:	8671	d) Make:	Khera
	e) Model / Type:	KI - 181	f) Range:	As Per Report
	g) Sensor:	N.A.	h) Resolution:	0.1 °C
	i) End User:	Trace Organic Lab	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 24-07-23

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 24-07-23

1.6 Recommended date of next calibration : 24-07-24

1.7 Date of Issue : 05-08-23

1.8 Environmental Conditions During Calibration: Temperature: 25.3 °C  
Humidity: 65.5 % RH

1.9 Method of Calibration: SOP / TH / 05

## 2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

i) Data Acquisition Switch Unit Cal. Certificate No. JRPM - CCTR - ET - 2022 - 1498 (JRPM, Chennai) (Cal. Date: 25/08/22, Due Date: 24/08/23)

ii) RTD (PT - 100) Cal. Certificate No. TL / 022 / 1166.2.1

(TEMPSENS, Udaipur) (Cal. Date: 19/10/22, Due Date: 18/10/23)

## 2.1 Result :

## Thermal Calibration (Temperature)

Sl. No.	Parameter/ Range	Temperature Set at °C	Measured Value on DUC			Corrected Std. Value					Error °C	Zone	Measurement Expanded Uncertainty ± °C
			Min. °C	Max. °C	Average °C	Min. Ohms	Min. °C	Max. Ohms	Max. °C	Average °C			
1.		75.0	75.0	75.0	75.00	129.05	75.16	129.06	75.19	75.188	-0.188	UZ	0.68
						129.06	75.19	129.09	75.26	75.238	-0.238	MZ	0.68
						129.08	75.23	129.11	75.32	75.290	-0.290	LZ	0.68
						140.52	105.32	140.56	105.41	105.378	-0.378	UZ	0.68
						140.54	105.38	140.59	105.49	105.451	-0.451	MZ	0.68
2.	Temperature	105.0	105.0	105.0	105.00	140.56	105.41	140.61	105.55	105.493	-0.493	LZ	0.68
						157.51	150.49	157.56	150.63	150.575	-0.575	UZ	0.68
						157.56	150.63	157.60	150.74	150.702	-0.702	MZ	0.68
3.		150.0	150.0	150.0	150.00	157.60	150.74	157.65	150.86	150.814	-0.814	LZ	0.68

Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.

ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

iii) Average Reading obtained by 10 Readings.

iv) Error = Average DUC Reading - Average Standard Reading.

v) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard Min. - Minimum  
Max. - Maximum UZ - Upper Zone LZ - Lower Zone MZ - Middle Zone

## Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibrated by:

J. Dey  
J. Dey

Calibration Engineer

Calibration Engineer

Measure Techno Lab

Kolkata

Checked / Approved by:

S. Pandey  
Quality & Technical Manager

Form No.: MTL/22/2006 Issue No.: 2 Issue Date: 10.11.06

Rev. No.: 04 Rev. Date: 01.04.22

S. Pandey