



# YEA

☎ : 033 2677 1411/1412, 2667 1909

## YOUNG ENGG. & CALIBRATION SERVICES PVT. LTD.

Admn. Office & Lab : Kamardanga Road (Opp. Tarama Ashram), Ichapur, Howrah - 711 104

E-mail : calibration@yeagroup.org ★ Visit us at : www.yeagroup.org

CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

### Calibration Certificate

Certificate No.: YEA(C)/ 230724S/C875/004  
ULR No.: CC222123000009955F

Dated : 31.07.2023

Calibrated for : **Central Pollution Control Board**  
Southend Conclave 1582, Rajdanga Main Road,  
Kolkata - 700107, West Bengal, India.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
24.07.2023	24.07.2024	1	3

#### Description of Instrument

Name : Hot Air Oven  
 Identification : CPCB/KOL/HO-01/86  
 Working Range : 50 to 70 °C  
 Least Count : 1 °C  
 Make : SICO



CC-2221

Service Request No. / Order Reference : 230724S/C875/001-009

Receipt of Instrument : 24.07.2023

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/T-04

Environmental Condition during Calibration : Temp. : 30±2°C RH : 60±10%

Equipment used for Calibration : Standard Data Acquisition System & Standard RTD Sensors (9 Nos.)

#### Traceability

: To National Standard vide Certificate No.  
 YEA(C)/ 221221/Y001/001 valid till 20.12.2023  
 TL/023/52.1.1 valid till 11.01.2024  
 TL/023/52.1.2 valid till 11.01.2024  
 TL/023/52.1.3 valid till 11.01.2024  
 TL/023/52.1.4 valid till 11.01.2024  
 TL/023/52.1.5 valid till 11.01.2024  
 TL/023/52.1.6 valid till 11.01.2024  
 TL/023/52.1.7 valid till 11.01.2024  
 TL/023/52.1.8 valid till 11.01.2024  
 TL/023/52.1.9 valid till 11.01.2024

#### Measurement Uncertainty

: The figures are stated in the result at coverage factor  $k=2$  corresponding to confidence probability of 95% for normal distribution.

#### Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated &  
The results are given in the page 2 to ..... 3 ...of the Certificate.

Cont.....2





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Calibrated By : S. Jana

Date : 31.07.2023  
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### Calibration Results

#### Thermal Calibration

#### Calibration Results of Hot Air Oven :

Set Value (°C)	Zone	DUC Value			Standard Value		
		(°C)			(°C)		
		Maximum	Minimum	Average	Maximum	Minimum	Average
50	1	50	49	50	50.091	49.321	49.649
	2				50.015	49.843	49.917
	3				50.155	49.222	49.590
	4				49.474	49.360	49.404
	5				50.086	49.161	49.617
	6				49.708	49.512	49.587
	7				49.686	49.554	49.600
	8				50.117	49.158	49.660
	9				49.350	49.208	49.281
Stability of Oven : 0.479 °C							
Nonuniformity of Oven : 0.636 °C							
Measurement Uncertainty ( ± ) : 2.65 °C							

Set Value (°C)	Zone	DUC Value			Standard Value		
		(°C)			(°C)		
		Maximum	Minimum	Average	Maximum	Minimum	Average
60	1	60	59	60	59.981	59.166	59.529
	2				59.817	59.745	59.780
	3				59.901	59.154	59.483
	4				59.770	59.024	59.453
	5				59.847	59.700	59.797
	6				60.040	59.281	59.597
	7				59.344	59.197	59.289
	8				59.942	59.800	59.880
	9				59.483	59.331	59.386
Stability of Oven : 0.408 °C							
Nonuniformity of Oven : 0.494 °C							
Measurement Uncertainty ( ± ) : 2.66 °C							

Con. 3





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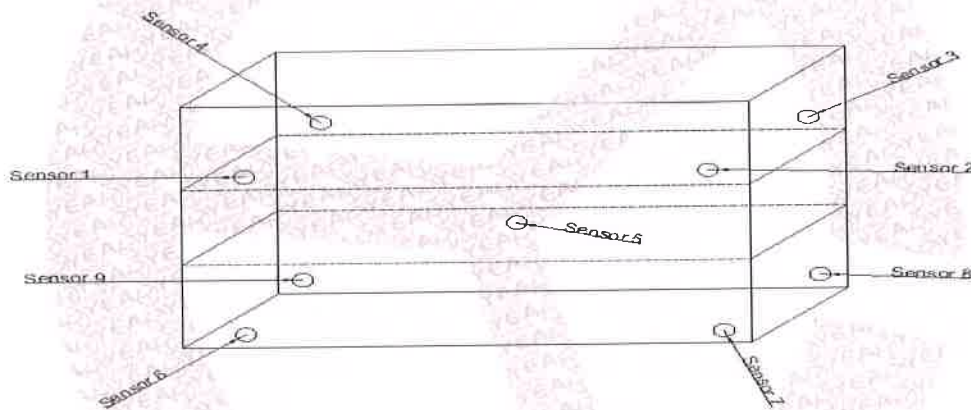
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Page 3 of 3 Pages

Set Value (°C)	Zone	DUC Value			Standard Value		
		(°C)			(°C)		
		Maximum	Minimum	Average	Maximum	Minimum	Average
70	1	70	69	69	69.595	69.131	69.365
	2				69.621	69.261	69.462
	3				69.361	69.191	69.251
	4				69.913	69.230	69.445
	5				69.615	69.226	69.442
	6				69.271	69.180	69.221
	7				69.571	69.165	69.394
	8				69.366	69.279	69.322
	9				69.160	69.011	69.082
Stability of Oven : 0.342 °C							
Nonuniformity of Oven : 0.380 °C							
Measurement Uncertainty (±) : 2.66 °C							



### Hot Air Oven

Temperature Scale : ITS - 90

DUC : Device Under Calibration

REMARKS : The above Hot Air Oven has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.

Authorised By

A. Das

Manager Calibration

\*\*\* End of the Calibration Certificate \*\*\*

