



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/C875/003
ULR No.: CC222123000009954F

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-04/14
Working Point : 105 & 180 °C
Least Count : 0.1 °C
Make : Gautam Scientific Works

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



CC-2221



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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
105.0	1	105.0	104.8	104.9	104.855	104.637	104.762
	2				105.014	104.748	104.893
	3				104.574	104.418	104.511
	4				104.695	104.543	104.603
	5				104.889	104.575	104.698
	6				104.788	104.651	104.711
	7				104.685	104.536	104.609
	8				104.771	104.481	104.605
	9				104.712	104.477	104.557
Stability of Oven : 0.157 °C							
Nonuniformity of Oven : 0.336 °C							
Measurement Uncertainty (±) : 3.06 °C							

Set Value (°C)	Zone	DUC Value			Standard Value		
		(°C)			(°C)		
		Maximum	Minimum	Average	Maximum	Minimum	Average
180.0	1	180.0	179.6	179.7	179.681	179.420	179.578
	2				179.743	179.530	179.614
	3				179.673	178.822	179.373
	4				179.615	179.151	179.359
	5				179.982	179.112	179.500
	6				179.881	179.066	179.534
	7				179.891	179.213	179.463
	8				179.611	179.388	179.487
	9				179.191	179.055	179.130
Stability of Oven : 0.435 °C							
Nonuniformity of Oven : 0.484 °C							
Measurement Uncertainty (±) : 3.07 °C							

Cont. 3





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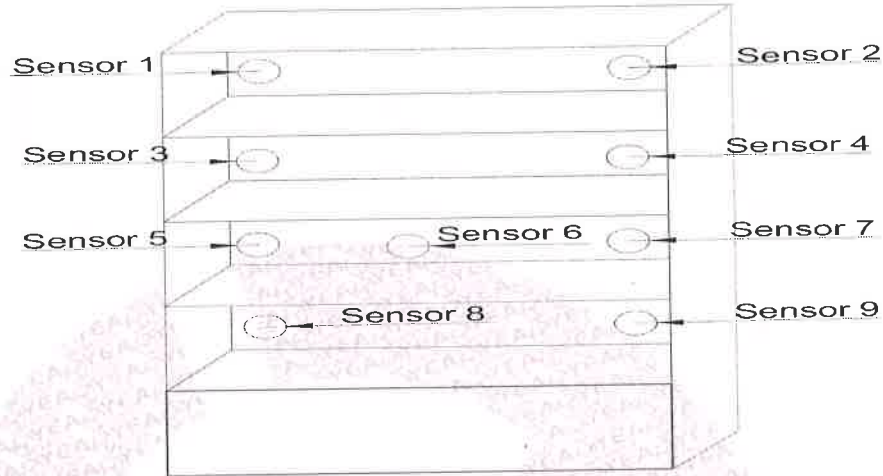
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Hot Air Oven

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 ***

