

### Calibration Certificate

Certificate No.: YEA(C)/ 230724S/C875/001  
 ULR No.: CC222123000009952F

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* : Electronic Balance  
*Identification* : CPCB/KOI/EB/03/04  
*Maximum Capacity* : 3200 g  
*Least Count* : 0.001 g upto 1 kg & 0.01 g above 1 kg  
*Make* : Sartorius (Sl. No. : 16410926)  
*Model* : LA3200D

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/M-46

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

Equipment used for Calibration : Standard Weight Box

Traceability : To National Standard vide Certificate No:  
 20121038/D1.01/C-165/amend valid till 02.03.2024  
 21100844/D1.01/C-165 valid till 20.01.2025

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.



CC-2221

Con.....2



# 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

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

Certificate No.: YEA(C)/230724S/C875/001  
ULR No.: CC22212300009952F  
Calibrated By : S. Jana

Dated : 31.07.2023  
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### Calibration Results

#### Mechanical Calibration

##### A) Linearity of Balance :

Sl. No.	Standard Weights Used	Observed Reading on DUC	Overall Measurement Uncertainty of Balance ( ± g )
	( g )	( g )	
1	0.000000	0.000	0.016
2	0.099997	0.100	
3	1.000002	1.000	
4	9.999999	10.000	
5	50.000010	49.999	
6	200.000054	199.999	
7	500.000120	499.999	
8	1000.00013	999.986	
9	2000.00000	1999.93	
10	3200.000184	3199.81	0.21

##### B) Repeatability of Balance : (At Half Load)

Sl. No.	Standard Weights Used	Observed Reading on DUC	Standard Deviation
	( g )	( g )	( g )
1	500.00012	499.999	0.001
		499.998	
		499.999	
		499.999	
		499.998	
		499.999	
		499.999	
		499.998	
		499.999	
		499.998	

##### C) Repeatability of Balance : (At Maximum Load)

Sl. No.	Standard Weights Used	Observed Reading on DUC	Standard Deviation
	( g )	( g )	( g )
1	1000.00013	999.986	0.001
		999.987	
		999.986	
		999.987	
		999.986	
		999.987	
		999.986	
		999.986	
		999.987	
		999.986	

##### D) Eccentricity of Balance :

Sl. No.	Parameter	Observed Value ( g )
1	Maximum difference between centre & other four points	0.001

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**E) Repeatability of Balance : (At Half Load)**

Sl. No.	Standard Weights Used	Observed Reading on DUC	Standard Deviation
	( g )	( g )	( g )
1	1500.00025	1499.93	0.01
		1499.94	
		1499.93	
		1499.93	
		1499.94	
		1499.93	
		1499.94	
		1499.93	
		1499.94	
		1499.93	

**F) Repeatability of Balance : (At Maximum Load)**

Sl. No.	Standard Weights Used	Observed Reading on DUC	Standard Deviation
	( g )	( g )	( g )
1	3000.00013	2999.85	0.01
		2999.84	
		2999.85	
		2999.85	
		2999.84	
		2999.85	
		2999.84	
		2999.85	
		2999.84	
		2999.85	

**G) Eccentricity of Balance :**

Sl. No.	Parameter	Observed Value
		( g )
1	Maximum difference between centre & other four points	0.01

DUC : Device Under Calibration

**REMARKS :** The above Electronic Balance 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 \*\*\*

