

FULL SCALE CALIBRATION AND ZERO ERROR RECORD
(Analytical and Precision Weighing Balance)

Unit : X

Department : QC

Balance Code No. : BAL1707

Make : METTLER TOLEDO

Std. Weight Box ID. : WB16072025

Month and year : July 2025

Capacity (g) : 320.000

Model : ML303

Least Count (g) : 0.001

Tolerance: +/- Least count of the balance OR +/- 0.1 % of Standard weight whichever is higher.

Standard weights for calibration (g)		Tolerance (g)	Accuracy Limits(Std wt +/- Tolerance) (g)
Lower(20.e)/(5% of a)/Minimum capacity of the checkweigher / weighing balance	10.000	± 1.000	9.000 - 11.000
Middle-I(20% of a)	30.000	± 1.000	29.000 - 31.000
Middle-II(50% of a)	50.000	± 1.000	49.000 - 51.000
Upper(80% of a)	70.000	± 1.000	69.000 - 71.000

- Note:**
1. Adjust zero error before starting the weighing operation.
 2. Check against standard weights daily before starting the activity.
 3. If more than one standard weight is used for verification then record the standard weight / identification No. of all individual weights used for verification. (E.g. For verification of 200g, if three weights viz. 50g, 50g & 100g is used then record standard weight/identification No. of all the three weights)

Date	Time	Spirit Level (Ok/ Not Ok)	Zero Error	Standard weights kept on the balance (g)		Readings shown (g)	Remark	Performed by	Checked By
26.07.2025	09:18	OK	Nil	Lower(20.e)/(5% of a)/Minimum capacity of the checkweigher / weighing balance	10.000	10.000	Ok	kumkum(q)	Tantra(22)
				Middle-I(20% of a)	30.000	30.000	Ok	kumkum(q)	Tantra(22)
				Middle-II(50% of a)	50.000	50.000	Ok	kumkum(q)	Tantra(22)
				Upper(80% of a)	70.000	70.000	Ok	kumkum(q)	Tantra(22)

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3. Repeatability test:

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	50.000	50.000	Ok
2	50.000	50.000	Ok
3	50.000	50.000	Ok
4	50.000	50.000	Ok
5	50.000	50.000	Ok
6	50.000	50.000	Ok
7	50.000	50.000	Ok
8	50.000	50.000	Ok
9	50.000	50.000	Ok
10	50.000	50.000	Ok
Mean		50.000	-
Standard Deviation (S.D.)		0.0000	-

$$\text{Repeatability (\%)} = \frac{2 \times (0.41 \times d)}{\text{Standard weight (g)}} \times 100 = 0.00$$

Acceptance criteria : Repeatability is NMT 0.10 %

Remark : Complies

Calibration Done By: kumkum (q)

Checked By:
(Quality Assurance)

Date & Time: 26.07.2025 & 09:18:37

Date & Time: