

FULL SCALE CALIBRATION AND ZERO ERROR RECORD

(Analytical and precision weighing balance)

Dept.:	Production	Month and year:	Mar 2017
Code No. :	Cod0139	Capacity (a):	1.000 g
Standard weight box no. :	SWB942	Least Count (e):	3.000 g
Make:	IT	Model:	apl.2

1. Calibration using standard weights:

Tolerance: +/- least count of the balance OR +/- 0.1 % of Standard weight whichever is higher and value should be rounded off on lower side as per display capacity of balance.

Standard weights for calibration (g)		Tolerance (g)	Accuracy Limits (Std Weights +/- Tolerance) (g)
20e	0.020	+/-0.001	0.019-0.021
2.0% of a	4.200	+/-0.004	4.196 - 4.204
8.0% of a	5.000	+/-1.000	4.000 - 6.000
1.0% of a	21.000	+/-0.0210	20.979 - 21.021
2.0% of a	42.000	+/-0.042	41.958 - 42.042

- Note :
1. Adjust zero error before commencing the weighing operation.
 2. Check against standard weights on every month.

Date	Time	Spirit Level (Ok/Not Ok)	Zero Error	Standard weights kept on the balance (g)		Readings shown (g)	Done By	Checked By (QA)
19.03.2017	10:03	OK	NIL	20e	0.020	0.020	Sayali J	Rahul L
				2.0 % of a	4.200	4.200	Sayali J	Rahul L
				8.0 % of a	5.000	5.000	Sayali J	Rahul L
				1.0 % of a	21.000	21.000	Sayali J	Rahul L
				2.0 % of a	42.000	42.000	Sayali J	Rahul L

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2. Uncertainty test:

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	21	21.000	OK
2	21	21.000	OK
3	21	21.000	OK
4	21	21.000	OK
5	21	21.000	OK
6	21	21.000	OK
7	21	21.000	OK
8	21	21.000	OK
9	21	21.000	OK
10	21	21.000	OK
Mean		21.000	-
Standard Deviation (S.D.)		0.0000	-

Uncertainty = $3 \times \text{S. D.}$ = 0.0000

Reported standard mass weight (g)

Note: For standard weight of mass value refer calibration certificate of weights.

Acceptance criteria: Value of uncertainty should be NMT 0.001 g.

Remark: Complies.

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3. Repeatability test:

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	21	21.000	OK
2	21	21.000	OK
3	21	21.000	OK
4	21	21.000	OK
5	21	21.000	OK
6	21	21.000	OK
7	21	21.000	OK
8	21	21.000	OK
9	21	21.000	OK
10	21	21.000	OK
Mean		21.000	-
Standard Deviation (S.D.)		0.0000	-

Acceptance criteria : Standard deviation should not be more than 0.0009 g

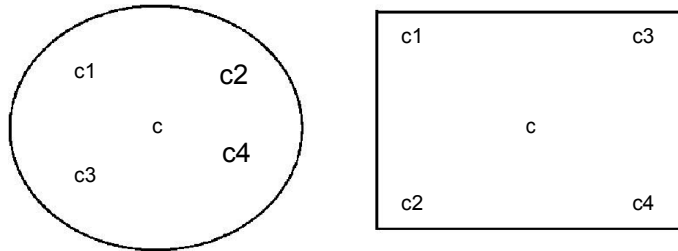
Remark : Complies

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4. Eccentricity test:

Note: Adjust zero error before commencing the weighing operation.



Sr. No.	Standard Weight (g)	Position	Reading displayed by the balance (g)	Deviation from Centre=X-C	Remark
1	21	C	21.000	-----	OK
2	21	C1	21.000	0.000	OK
3	21	C2	21.000	0.000	OK
4	21	C3	21.000	0.000	OK
5	21	C4	21.000	0.000	OK

Where, X=C1, C2, C3, C4 i.e. different corners of the balance.

Acceptance criteria : Deviation from centre should be not more than +/- 0.003 g

Remark : The instrument is calibrated and complies with the acceptance criteria.

Comment : Report Found Okay.

Calibration performed by : (User) SAYALI J(1452)

Date :

28/05/2016

Checked by : (Quality Assurance)

Date :

Rahul L

28/05/2016