**Sensitivity check :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Instrument Name** | **Analytical balance** | | |
| **Instrument Code** |  | **Make / Model** |  |
| **Location** |  | **Calibration frequency** |  |
| **Calibration date** |  | **Next Calibration due on** |  |
| **Weight Box No.** |  | **Valid up to** |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Date | Level indicator check | Actual mass value of 200 g weight= | Weight box No. & Valid up to | Done by | Checked by | Remarks |
| Limit ⇒ | Bubble should be in Center | Limit:+**0.05% of actual mass value** (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g to \_\_\_\_\_\_\_\_\_\_\_\_\_ g) |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Remark:** The Calibration of instrument found satisfactory / not satisfactory.

**Calibrated by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Checked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Accuracy:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Level indicator check | Actual mass value 10g= ±0.10% of actual mass value | Actual mass value 100 g=  ±0.10% of actual mass value | Actual mass value 200 g=  ±0.10% of actual mass value | Weight box No. & Valid up to | Done by | Checked by | Remarks |
| Limit ⇒ | Bubble should be in Center | Limit: \_\_\_\_\_\_\_\_\_\_\_ g  to\_\_\_\_\_\_\_\_\_\_\_\_\_\_ g | Limit: \_\_\_\_\_\_\_\_\_\_\_ g  to\_\_\_\_\_\_\_\_\_\_\_\_\_\_ g | Limit: \_\_\_\_\_\_\_\_\_\_\_ g  to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ g |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Note:** Limits shall be calculated considering actual mass value of the weight. | | | | | | | | |

**Remark:** The Calibration of instrument found satisfactory / not satisfactory.

**Calibrated by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Checked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Eccentricity:**

 

**Figure – 1 (If pan is circular) F igure – 2 (If pan is Square)**

**# Note : 1,2,3,4 & 5 = Position of Weights**

**Eccentricty :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weight used** | **Actual mass value(g)** | **Observed Weight (in g)**  **Limit :** All weights should be±0.05 % of actual mass value. | | | | |
| Limit as per actual mass value : Min \_\_\_\_\_\_\_\_\_\_ g to Max\_\_\_\_\_\_\_\_\_ g | | | | |
| 100 g |  | **Wt. of Position 1** | **Wt. of Position 2** | **Wt. of Position 3** | **Wt. of Position 4** | **Wt. of Position 5** |
|  |  |  |  |  |

**Remarks:** The Calibration of instrument found satisfactory / Not satisfactory.

**Calibrated by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Checked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Repeatability:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Weight used | Weight Box No. & Valid up to | Observed Weight | | | | | | | Mean | Standard deviation | Value of 0.41d | Repeatability  Limit: NMT 0.0010 | Done by | Checked by | Remark |
|  | 200 mg  ------------- |  |  |  |  | |  | |  |  |  |  |  |  |  |  |
|  |  | |  | |  |  |
|  | 200 g  ------------- |  |  |  | |  | |  |  |  |  |  |  |  |  |  |
|  |  | |  | |  |  |

**Calculation:** Smallest net weight-0.1 g

* **For 200 mg**

Standard deviation/ 0.41d value x 2

Repeatability = --------------------------------------------------------------------------------- = ------------------------------- = \_\_\_\_\_\_\_\_\_\_

Nominal value of the weight used for the desired smallest net weight.

* **For 200 g**

Standard deviation/ 0.41d value x 2

Repeatability = ------------------------------------------------------------------------------- = ------------------------------- = \_\_\_\_\_\_\_\_\_\_

Nominal value of the weight used for the desired smallest net weight.

**Remark :** The Calibration of instrument found satisfactory / Not satisfactory.

**Calibrated by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Checked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**