|  |  |
| --- | --- |
| **SOP Reference:** SOP for Operation, Calibration and cleaning of 1 kg electronic weighing Balance (Orange Make). | |
| **Instrument No.:** | **Calibrated on:** |
| **Frequency of Calibration:** | **Calibration due date:** |
| **Location:** | |

|  |  |
| --- | --- |
| **DETAILS OF STANDARD WEIGHTS** | |
| Name and certificate No.: |  |
| Range: |  |
| Calibrated on : |  |
| Next Calibration Due on: |  |

1. **BALANCE PERFORMANCE CHECK RECORD:**

**Date :** ……………………  **Sign / Date :** ……………………

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | Nominal Wt Used **in g** | **Actual Standard Wt in g** | **Display Wt**  **in g** | **Deviation**  **in g** | **Acceptable range in**  **g** | Done by | Verified by | **Remark** |
| 1 | 30 |  |  |  | ± 0.1 |  |  |  |
| 2 | 60 |  |  |  | ± 0.3 |
| 3 | 100 |  |  |  | ± 0.5 |
| 4 | 200 |  |  |  | ± 1.0 |
| 5 | 400 |  |  |  | ± 2.0 |
| 6 | 600 |  |  |  | ± 3.0 |

**Remark :** ……………………………………………………………………………………………

……………………………………………………………………………………………

1. **UNCERTAINTY MEASUREMENT : NMT 0.1%**

**Date :** ……………………  **Sign / Date :** ……………………

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | Weight used 500g | **Display reading in g** | Actual Standard Wt. | **Standard Deviation** | Uncertainty | Remark |
| 1 |  |  |  |  |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

1. **ECCENTRICITY : RSD NMT 0.05%**

**Date :** ……………………  **Sign / Date :** ……………………

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | Nominal Wt used 500g | **Display reading**  **in g** | **Standard certified weights** | **Average** | **SD** | **% RSD** | **Remark** |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |

Note: {\*} marking weights and without marking weights used for calibration of weighing balance.

**Conclusion:** The Balance performance results, Uncertainty and Eccentricity are within / are not within specified limits therefore the Electronic weighing balance is suitable / not suitable for its intended use.

|  |  |
| --- | --- |
| **Tested By / Date :** ……………………… | **Reviewed By / Date :** ……………………… |