Standard Operating Procedure (SOP) for Weighing Machine/Balance

1. Римрове The pumpose of this SOP is to ensure the accurate and consistent use of weighing machines/balances for precise measurements in various applications, such as laboratory work, industrial use, and everyday weighing needs.

2. Scope
This SOP applies to all personnel using weighing machines/balances, ensuring their proper handling, calibration, and maintenance.

3. Responsibilities

- Users must handle the weighing machine with care and follow this SOP. - The assigned personnel must ensure regular calibration and maintenance of

the balance.

- Any discrepancies or maltunctions must be reported immediately.

4. Equipment and Materials
- Weighing machine/balance (electronic Or mechanical) - Calibration weights - Power source (for digital balances) 5. PHOCEDINE 5.1 Pre-Operation Checks: - Ensure the weighing machine is placed On a stable and level surface. - Check for any visible damages on dirt On the weighing pan.

- If using an electronic balance, ensure it is properly plugged in and turned on.

- Allow the balance to warm up if neguined by the manufacturer. 5.2 Calibration: - It required, perform calibration using standard weights before use.
- Follow the manufacturer's instructions for internal or external calibration. - Ensure the balance displays zero

before placing any Object. 5.3 Weighing Process:

- Place the Object gently On the Weighing pan to avoid damage Or misseading.

- Ensure the Object is dry and free from any extra materials that might affect the Weight.

- Record the Weight Only When the display reading is stable.

- Remove the Object carefully and ensure the balance returns to zero betore the next measurement before the next measurement. 5.4 Post-Operation Care: - Clean the weighing pan using a soft brush or cloth after use.

- Turn off the balance if it's not in - Store the balance in a clean, dry place, tree from extreme temperature and humidit 6. Thoubleshooting Common

Issues - Inaccurate readings: Ensure calibration is done correctly, and the balance is on a stable surface. - Fluctuating readings: Avoid air drafts Or vibrations near the balance. -Balance not turning on: Check the power source or battery. 7. Safety Measures - Do not overload the balance beyond its maximum capacity. - Avoid using the balance near strong magnets or electrical interference. - Handle with case to prevent mechanical damage.

8. Maintenance and Record Keeping

- Schedule regular calibration as per
manufacturer guidelines.

- Keep a log of maintenance, calibration,
and any issues encountered. - Ensure proper servicing it persistent issues arise. By following this SOP, usens can maintain

the accuracy, longevity, and efficiency of the weighing machine, ensuring reliable measurements in every use.

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