



**STANDARD OPERATING PROCEDURE**

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|--|------------------------|
| <b>Department:</b> Quality Control                               | <b>SOP No.:</b>        |
| <b>Title:</b> Operation and Calibration Procedure for Tachometer | <b>Effective Date:</b> |
| <b>Supersedes:</b> Nil   | <b>Review Date:</b>    |
| <b>Issue Date:</b>   | <b>Page No.:</b>       |

**1.0 OBJECTIVE:**

To lay down the procedure for operation and calibration procedure for Tachometer.

**2.0 SCOPE:**

This procedure applies to operation and calibration procedure for Tachometer in quality control department.

**3.0 RESPONSIBILITY:**

Officer, Executive – Quality Control.

Head – Quality Control.

**4.0 PROCEDURE:**

**4.1 Preliminary Check:**

4.1.1 Check and ensure that the light source of the instrument is clean, if not clean with soft cloth duster or clean tissue paper.

4.1.2 Check whether the instrument is calibrated and is within the validity of the calibration.

**4.2 Operation Procedure:**

4.2.1 Paste a small radium sticker to the object whose revolutions are to be measured, in such a way that a small area of the object is only covered.

4.2.2 Hold the tachometer preparation to the surface on which the radium sticker is attached on the object in such a way that the light will fall on the center of radium sticker.

4.2.3 Press the black button on the right hand side of the tachometer, light rays fall on the radium sticker/ object. The Tachometer gives the revolution per minute displayed on the LCD display. Wait till a stable value is displayed on the LCD.

4.2.4 While light button is pressed and revolution value is displayed on the LCD display, press the memory button, the reading gets recorded in the memory. (Only one reading at a time can be stored in the memory).

4.2.5 One can recall the value in memory by pressing memory button again as per requirement.

4.2.6 Record the instruments used in usage logbook.



**PHARMA DEVILS**  
QUALITY CONTROL DEPARTMENT

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**4.3 Calibration:**

4.3.1 The Tachometer should be calibrated by external agencies, having traceability to NIST and Engineering department as per SOP: Calibration of RPM meter/ indicator

4.3.2 Frequency of Calibration: Once in a year.

**5.0 ANNEXURE (S):**

Nil

**6.0 REFERENCE (S):**

SOP: Preparation, Approval, Distribution control, revision and destruction of Standard Operating Procedure (SOP).

SOP: Calibration of RPM meter/ indicator.

**7.0 ABBREVIATION (S)/DEFINITION (S):**

SOP - Standard Operating Procedure

NIST - National Institute of Standard and Technology

**REVISION CARD**

| S.No. | REVISION No. | REVISION DATE | DETAILS OF REVISION | REASON (S) FOR REVISION | REFERENCE CHANGE CONTROL No. |
|-------|--------------|---------------|---------------------|-------------------------|------------------------------|
| 1     | 00           | ----          | ----                | New SOP                 | ----                         |