

PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Engineering	SOP No.:	
Title: Calibration of Pressure Gauges	Effective Date:	
Supersedes: Nil	Review Date:	
Issue Date:	Page No.:	

1.0 Revision History

Rev. No.	Details of changes	Reason for change
00	NIL	NEW SOP

2.0 **OBJECTIVE:**

The Objective of this SOP is:

2.1 To describe the procedure for Calibration Of Pressure Gauges.

3.0 SCOPE:

3.1 This SOP is applicable for the calibration of Pressure Gauge installed in manufacturing & Other Facilities of

4.0 **RESPONSIBILITY:**

4.1 The Maintenance Engineer shall be:

4.1.1 Responsible for Calibration of Pressure Gauges.

5.0 ACCOUNTABILITY:

Head – Engineering Services

6.0 **PROCEDURE**:

- **6.1** Calibration of pressure gauges to be done by the outside party against calibrated standard Pressure gauge fixed on the comparator.
- **6.2** Institute should certify the calibrated reference standard for Design of Electrical. Measuring Instruments (IDEMI) / Electronics Regional Test Laboratory (ERTL)
- 6.3 Fix the pressure gauge, which is to be calibrated on comparator.
- 6.4 Check the zero setting of the pressure gauge. Rectify it, if required.
- 6.5 Check the least count (LC) of the pressure gauge.
- **6.6** A deviation of ± 1 LC is allowable.
- 6.7 Apply the pressure up to maximum reading with the help of comparator.
- 6.8 Compare the reading of pressure gauge with standard calibrated pressure gauge.
- 6.9 Record the observations at various pressure ranges.



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- **6.10** If any deviation observed adjust the span accordingly.
- **6.11** After adjustment also, the deviation is not within the limit of acceptance criteria, the external Party should inform the status of pressure gauge to Engineering department.
- **6.12** The concerned engineer should replace the pressure gauge. Which should be calibrated as per point 6.4 to 6.9.
- **6.13** As per Instrument Calibration plan, if pressure gauge is Critical/Non Critical, engineering department should inform Quality Assurance and concerned department.
- **6.14** Label the instrument with date and difference in readings, which are taken during calibration of equipment.

6.15 Certificate of calibration to be obtained from the outside party.

6.16 FREQUENCY:

6.16.1 All pressure gauges being used in various departments are to be calibrated as per the Instrument Calibration Plan prepared as per SOP No.:

7.0 ANNEXURES:

NIL

8.0 References (S)

NIL

9.0 Glossary

SOP	:	Standard Operating procedure
No	:	Number
IDEMI	:	Institute for Design of Electrical Measuring Instruments.
ERTL	:	Electronics Regional Test Laboratory
OOC	:	Out of Calibration
LC	:	least count