



**TITLE: Calibration Procedure of Pressure Gauge**

<b>SOP No.:</b>		<b>Revision No.:</b>	00
<b>Effective Date:</b>		<b>Supersedes No.</b>	Nil
<b>Review Date:</b>		<b>Page No.</b>	1 of 1

**1.0 OBJECTIVE**

1.1 To describe a procedure for the calibration of pressure gauge.

**2.0 SCOPE**

2.1 This procedure applies to the Engineering department.

**3.0 RESPONSIBILITY**

3.1 Engineering

**4.0 ACCOUNTABILITY**

4.1 Plant head

**5.0 REFERENCE (S)**

5.1 In-house.

**6.0 PROCEDURE**

6.1 Close the line in which Pressure Gauge is installed before removing the gauge.

6.2 Remove the pressure gauge from the process line & unscrew three screws holding the dial. Ensure that gauge is properly cleaned.

6.3 Fix the gauge on comparator or dead weight tester as applicable.

6.4 Remove air from dead weight tester by moving screw piston to allow hydraulic oil to come out by loosening the gauge or vent hole.

6.5 After ensuring that no air bubble is present fix the gauge firmly and close the vent valve.

6.6 Also fix a standard gauge for comparison with the gauge under calibration.

6.7 When pressure is not applied note if there is any deviation of the pressure gauge with that of the Standard gauge.

6.8 Apply pressure to both the gauge.

6.9 If there is any deviations between the two gauges then adjust the pressure gauge with span screw.

6.11 If the gauge cannot be calibrated then replaced with a new one.

**7.0 HISTORY**

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE
	New transparent procedure incorporated.	
	Periodic Review	

**8.0 ABBREVIATIONS:** The abbreviations used in the SOP are as follows:

8.1 SOP - Standard Operating Procedure

8.2 No. - Number

8.3 QA - Quality Assurance