



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT  
ARIYALUR  
MECHANICAL DEPARTMENT**



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Issued By: M.R		Approved By: HOD-MECHANICAL	
AIR LEAKAGE TEST PROCEDURE			

**PROCEDURE FOR COMPRESSED AIR LEAKAGE TEST:**

The Mechanical engineer takes action as follows, for air leakage test:

**1.1 TESTING CONDITION:**

- 1.1.1 plant should be in shut down condition.
- 1.1.2 No one equipment can't run.
- 1.1.3 All end user valves are should be in open condition
- 1.1.4 All auto drain valves are in closed condition.

**1.2 TESTING PROCEDURE:**

- 1.2.1 Take the compressor in Local mode operation.
- 1.2.2 Adjust the pressure setting for Loading & Unloading (1 bar difference)
- 1.2.3 Start the compressor before start the test compressor should be two times goes for loading & unloading
- 1.2.4 When the loading times comes to start the stop watch and noted the timings of loading & unloading
- 1.2.5 Taking the min of 5 sets readings. Reading should be in seconds.

**2.0 CALCULATION:**

$$\% \text{ OF LEAKAGE} = \frac{(\text{LOADING TIME} + \text{UNLOADING TIME})}{\text{LOADING TIME}} \times 100 \%$$