



Title: Operation of Air Compressor & Air Dryer

SOP No.:		Revision No.:	00
Effective Date:		Supersedes No.	Nil
Review Date:		Page No.	1 of 3

1.0 OBJECTIVE

To describe a procedure for the operation of air compressor and air dryer.

2.0 SCOPE

This procedure applies to the Engineering department.

3.0 RESPONSIBILITY

Engineering

4.0 ACCOUNTABILITY

Plant head.

5.0 REFERENCE (S)

In-house.

6.0 PROCEDURE

6.1 Pre Start Checks:

- 6.1.1 Check the level of the water in the cooling tower sump. If less, make up by opening the raw water valve.
- 6.1.2 Remove the moisture from the air receiver through the moisture trap.
- 6.1.3 Check the motor electrical connections.
- 6.1.4 Ensure that the discharge valve of air compressor is OPEN.
- 6.1.5 Check for the oil level in the compressor. It should be more than half. If less, make up with 220 grade oil.

6.2 Procedure for starting of the air compressor.

- 6.2.1 Switch on the power supply from the panel.
- 6.2.2 Inch the air compressor and check the direction of rotation of pulley. If the direction marked on the compressor matches with the pulley direction, switch on the air compressor .
- 6.2.3 Check the air receiver pressure. If the air pressure is between 6 – 7 kg /cm², start the air dryer by pressing the GREEN PUSH button.
- 6.2.4 Check the loading and unloading at preset pressures.
- 6.2.5 Check & record the observations as per Annexure No-1 after every 2 Hours.

6.3 Procedure for shut down of the air compressor.

- 6.3.1 Switch off the of air compressor from the panel.
- 6.3.2 Switch off the air dryer from the RED push button.
- 6.3.3 Keep open all the valves to release the air for 5 minutes and close thereafter.

7.0 HISTORY

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE



PHARMA DEVILS

ENGINEERING DEPARTMENT

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

- SOP - Standard Operating Procedure
- No. - Number
- QA - Quality Assurance



PHARMA DEVILS

ENGINEERING DEPARTMENT

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ANNEXURE -I

AIR COMPRESSOR

S.No.	Date	Time	Oil Pressure		Cooling Water		Air Receiver Pressure (6.5-7.5 kg/cm ²)	Dew Point Position	Done by	Remarks
			Before (2.0-3.0) Kg/cm ²	After (2.0-3.0) kg/cm ²	Inlet Pressure (1.5-2.0) kg/cm ²	Outlet Pressure (1.0-1.5) kg/cm ²				

Checked By: