



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

<b>Department:</b> Engineering	<b>SOP No.:</b>
<b>Title:</b> Operation of Air Compressor	<b>Effective Date:</b>
<b>Supersedes:</b> Nil	<b>Review Date:</b>
<b>Issue Date:</b>	<b>Page No.:</b>

#### 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 operation of Air Compressor.
- 2.2 To monitor the performance of the Air Compressor.

#### 3.0 SCOPE

- 3.1 This SOP is applicable for the operation of Air compressor at

#### 4.0 RESPONSIBILITY

- 4.1 The Plant Operator shall be responsible for:
  - 4.1.1 The operation of Air Compressor.
  - 4.1.2 Monitoring the operation.
  - 4.1.3 Reporting for abnormal behavior.
- 4.2 The Engineer shall be responsible for:
  - 4.2.1 Corrective action in case of any deviation.
  - 4.2.2 Verifying the performance parameters as per acceptance criteria.



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#### 5.0 ACCOUNTABILITY

Head –Engineering Services.

#### 6.0 PROCEDURE:

##### 6.1 STARTING PROCEDURE

- 6.1.1 Ensure the air compressor is in `UNLOAD` mode.
- 6.1.2 Switch on the power supply to air compressor.
- 6.1.3 Observe that the compressor is running in UNLOAD mode.
- 6.1.4 Check and ensure the oil pressure.
- 6.1.5 Put the compressor in LOAD mode.
- 6.1.6 Check and ensure that the auto condensate drain is working properly of receiver and after cooler.
- 6.1.7 Maintain the equipment log book. (Annexure-1).

##### 6.2 STOPPING PROCEDURE:

- 6.2.1 Put the compressor in UNLOAD mode.
- 6.2.2 Switch off the power supply.
- 6.2.3 Maintain the equipment log book. (Annexure-1).

#### 7.0 ANNEXURES:

Annexure-I : Operation Logbook of Air Compressor

#### 8.0 References (S)

NIL



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#### 9.0 Glossary

SOP : Standard Operating procedure

No. : Number



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#### Annexure I

#### Operation Logbook of Air Compressor

START TIME	AIR COMP.-01	AIR COMP.-02
STOP TIME		

DATE:	
SHIFT:	
OPERATOR:	

Time (Hrs.)	Crankcase Oil Level		Oil Pressure (Kg/cm <sup>2</sup> )		Discharge Line Pressure (Kg/cm <sup>2</sup> )		Air Receiver Pressure (Kg/cm <sup>2</sup> )	Air Dryer outlet Pressure (Kg/cm <sup>2</sup> )	Functioning Of Auto Drain valve			
	No.1	No.2	No.1	No.2	No.1	No.2			Moisture Separator	Air receiver	Air Dryer	
<b>Oil Pressure</b>			<b>Oil Level</b>				<b>Air Discharge Temperature</b>			<b>CHECKED BY:</b> <b>(Engineer)</b>		
NLT 2.0Kg/cm <sup>2</sup>			NLT ½ of the level indicator				NMT 180°C					