



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

<b>Department:</b> Engineering	<b>SOP No.:</b>
<b>Title:</b> Preventive Maintenance of Air Dryer	<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

2.1 The purpose of this SOP is describe the procedure for preventive maintenance of Air Dryer.

#### 3.0 Scope

3.1 This SOP is applicable for the preventive maintenance of Air Dryer installed in Utility Block

#### 4.0 RESPONSIBILITY:

4.1 The Maintenance Operator shall be responsible:

4.1.1 To carry out preventive maintenance of equipment.

4.1.2 To report any deviation and/or deficiency observed during preventive maintenance.

4.1.3 To maintain the record of all checks.

4.2 The Maintenance Engineer shall be responsible:

4.2.1 To get the preventive maintenance done as per annual maintenance planner.

4.2.2 To check the preventive maintenance activity is carried out and deviations and/or

Deficiencies are complied as per requirement.



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

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

#### 5.0 Accountability

Head –Engineering Services

#### 6.0 PROCEDURE:

##### 6.1 CAUTION:

**6.1.1** Before carrying out preventive maintenance, switch 'off' the mains, remove fuses and display the 'Under Maintenance' board.

##### 6.2 MONTHLY PREVENTIVE MAINTENANCE ACTIVITIES:

**6.2.1** Check the operation of auto-condensate drain valve. Rectify it, if required.

**6.2.2** Check the operation of compressor for any abnormal noise and vibrations. Rectify it, if required.

**6.2.3** Check the operation of condenser cooling fan for any abnormal noise and vibrations. Rectify it, if required.

**6.2.4** Check all the refrigerant line for any damage or leakage. Rectify it, if required.

**6.2.5** Check the compressed air inlet and outlet line for any leakage. Rectify it, if required.

**6.2.6** Check all the electrical connections and indicators for proper tightness, any damage and proper functioning. Rectify it, if required.

**6.2.7** Maintain the record of all checks in checklist. (Annexure-1).

#### 7.0 ANNEXURES:

Annexure-1 : Monthly Preventive Maintenance Checklist for Air Dryer.

#### 8.0 References (S)

NIL

#### 8.0 Glossary



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

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

SOP : Standard Operating procedure

### ANNEXURE-I

#### Monthly Preventive Maintenance Checklist for Air Dryer

EQUIPMENT CODE:		LOCATION:	MONTH:
S.No.	DESCRIPTION	OBSERVATIONS/ REMARKS	
1.	Check the operation of auto-condensate drain valve. Rectify it, if required.		
2.	Check the operation of compressor for any abnormal noise and vibrations. Rectify it, if required.		
3.	Check the operation of condenser cooling fan for any abnormal noise and vibrations. Rectify it, if required.		
4.	Check all the refrigerant line for any damage or leakage. Rectify it, if required.		
5.	Check the compressed air inlet and outlet line for any leakage. Rectify it, if required.		
6.	Check all the electrical connections and indicators for proper tightness, any damage and proper functioning. Rectify it, if required.		
<b>Done by:</b> <b>(Operator)</b>		<b>Done on:</b>	
<b>Checked by:</b> <b>(Engineer)</b>		<b>Next due on:</b>	
<b>Verified by:</b> <b>(Concerned Department)</b>			

**FREQUENCY :- MONTHLY PREVENTIVE MAINTENANCE**



# PHARMA DEVILS

## ENGINEERING DEPARTMENT

### STANDARD OPERATING PROCEDURE

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

**CAUTION :** *BEFORE CARRYING OUT PREVENTIVE MAINTENANCE, SWITCH OFF THE MAINS,  
REMOVE FUSE AND DISPLAY THE UNDER MAINTENANCE BOARD.*