



PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Engineering

SOP No.:

Title: Preventive Maintenance of Air Compressor

Effective Date:

Supersedes: Nil

Review Date:

Issue Date:

Page No.:

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 Compressor.

3.0 Scope

3.1 This SOP is applicable for the preventive maintenance of Air Compressor 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

| | |
|--|------------------------|
| Department: Engineering | SOP No.: |
| Title: Preventive Maintenance of Air Compressor | Effective Date: |
| Supersedes: Nil | Review Date: |
| Issue Date: | Page No.: |

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 oil level in crankcase. Top up oil as per sop no., if required.

6.2.2 Check the Non Return Valve (NRV) operation. Rectify it, if required.

6.2.3 Check the operation of auxiliary valve. Rectify it, if required.

6.2.4 Clean the suction air filter and check for any damage. Replace it, if required.

6.2.5 Check star lock washer for proper locking. Rectify it, if required.

6.2.6 Check the alignment of motor and compressor. Rectify it, if required.

6.2.7 Check the belt condition. Replace it, if required.

6.2.8 Take the running trial of air compressor. Rectify it, if any abnormal noise or vibrations are observed.

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

7.0 ANNEXURES:

Annexure-1 : Monthly Preventive Maintenance Checklist for Air Compressor

8.0 References (S)

NIL

8.0 Glossary

SOP : Standard Operating procedure

No : Number



PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE

| | |
|--|------------------------|
| Department: Engineering | SOP No.: |
| Title: Preventive Maintenance of Air Compressor | Effective Date: |
| Supersedes: Nil | Review Date: |
| Issue Date: | Page No.: |

ANNEXURE-I Monthly Preventive Maintenance Checklist for Air Compressor

| | | |
|------------------------|------------------|---------------|
| EQUIPMENT CODE: | LOCATION: | MONTH: |
|------------------------|------------------|---------------|

| SR. NO. | DESCRIPTION | OBSERVATIONS/ REMARKS |
|---------|---|-----------------------|
| 1. | Check the oil level in crankcase. Top up oil as per SOP , if required. | |
| 2. | Check the Non Return Valve (NRV) operation. Rectify it, if required. | |
| 3. | Check the operation of auxiliary valve. Rectify it, if required. | |
| 4. | Clean the suction air filter and check for any damage. Replace it, if required. | |
| 5. | Check star lock washer for proper locking. Rectify it, if required. | |
| 6. | Check the alignment of motor and compressor. Rectify it, if required. | |
| 7. | Check the belt condition. Replace it, if required. | |
| 8. | Take the running trial of air compressor. Rectify it, if any abnormal noise or vibrations are observed. | |

| | | | |
|---|--|---------------------|--|
| Done by: (Operator) | | Done on: | |
| Checked by: (Engineer) | | Next due on: | |
| Verified by: (Concerned Department) | | | |

FREQUENCY :- MONTHLY PREVENTIVE MAINTENANCE

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