



**Title:** Operation and Cleaning of Dust Collector

<b>SOP No.:</b>		<b>Revision No.:</b>	00
<b>Effective Date:</b>		<b>Supersedes No.</b>	Nil
<b>Review Date:</b>		<b>Page No.</b>	1 of 6

**1.0 OBJECTIVE:**

To lay down a Procedure for operation & cleaning of Dust Collector.

**2.0 SCOPE:**

This SOP is applicable for the operation and cleaning of Dust Collector

**3.0 RESPONSIBILITY:**

Operator/Officer / Executive – Engineering

**4.0 ACCOUNTABILITY:**

Head – Engineering

**5.0 ABBREVIATIONS:**

MCB	Miniature Circuit Breaker
SOP	Standard Operating Procedure
Pvt.	Private
Ltd.	Limited

**6.0 PROCEDURE:**

**6.1 Operation of dust collector:**

- 6.1.1** Before operation of dust collector check and ensure that power supply is available at starter (DOL Starter).
- 6.1.2** Check and ensure that filter/ cartridge installed in dust collector is in healthy condition by inspecting visually.
- 6.1.3** Check and ensure that damper (at inlet) should be in open condition.
- 6.1.4** Operate the dust collector by pressing push button and ensure that there is no abnormal noise from dust collector unit.
- 6.1.5** Check and ensure the rotation of motor, it should rotate in the specified direction i.e clockwise.
- 6.1.6** Check and ensure air pressure, it should be approx. 06 kg/cm<sup>2</sup> and if not then set the pressure at 06kg/cm<sup>2</sup> on pressure regulator.



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<b>Review Date:</b>		<b>Page No.</b>	2 of 6

**6.1.7** Check for the functioning of reverse pulse jet cleaning mechanism and operation of pulse jet timer and solenoid valve i.e Solenoid valve should operate at fixed intervals and the air should be purged in the dust collector. The pulse jet timer should give pulses at fixed set intervals.

### 6.2 Dust collector cleaning:

**6.2.1** Filters of dust collector shall be cleaned with a frequency of monthly as per filter cleaning schedule.

**6.2.2** Cleaning schedule of dust collector shall be prepared as per annexure –II.

**6.2.3** Clean the Collector filter and exhaust filter with compressed air and remove accumulated powder in the collecting basket / bin.

**6.2.4** Clean the blower blades with compressed air, and mop the inner surface of dust collector with wet cloth twice.

**6.2.5** Clean the dust collector with a frequency of one month and when required.

**6.2.6** Filter cleaning shall be done monthly as per **Annexure-I” Filter Cleaning Schedule of Dust Collector”**.

**6.2.7** Maintain the cleaning record as per **Annexure – I “Dust Collector Cleaning Record”**.

**6.3** If any failure is observed in dust collector unit, then same shall be addressed through breakdown SOP and same shall be communicated with user/concern department personnel’s.

**6.4** Preventive Maintenance of dust collector shall be carried out with a frequency of 03 months  $\pm$  7days as per checklist.

**6.5** Collected powder in dust collector bin shall be disposed as per SOP.

### 7.0 ANNEXURES:

ANNEXURE No.	TITLE OF ANNEXURE	FORMAT No.
Annexure – I	Dust Collector cleaning record	
Annexure – II	Cleaning Schedule of Dust Collector	
Annexure – III	Process Flow Diagram of Dust Collector	

**ENCLOSURES:** SOP Training Record



# PHARMA DEVILS

ENGINEERING DEPARTMENT

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<b>Effective Date:</b>		<b>Supersedes No.</b>	Nil
<b>Review Date:</b>		<b>Page No.</b>	3 of 6

## 8.0 DISTRIBUTION:

- Controlled Copy No. 01                      Quality Assurance
- Controlled Copy No. 02                      Engineering
- Master Copy                                      Quality Assurance

## 9.0 REFERENCES:

Not Applicable

## 10.0 REVISION HISTORY:

### CHANGE HISTORY LOG

Revision No.	Change Control No.	Details of Changes	Reason for Change	Effective Date	Updated By





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<b>Review Date:</b>		<b>Page No.</b>	5 of 6

## ANNEXURE – II CLEANING SCHEDULE OF DUST COLLECTOR

**Year:**

**Block:**

S.No.	Equipment Name	Equipment ID	Planning & Execution	Frequency	January	February	March	April	May	June	July	August	September	October	November	December
1			P	M												
			A													
2			P	M												
			A													

**Note:** P – Planned Date & A – Actual Done Date  
M – Monthly

**Prepared By**  
**Sign & Date**

**Checked By**  
**Sign & Date**



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<b>Review Date:</b>		<b>Page No.</b>	6 of 6

### ANNEXURE – III PROCESS FLOW DIAGRAM OF DUST COLLECTOR

