



PHARMA DEVILS

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Production	SOP No.:
Title: Cleaning and Operation of Air Jet Cleaning Machine with Turn table	Effective Date:
Supersedes: Nil	Review Date:
Issue Date:	Page No.:

Vernacular SOP: No

1.0 OBJECTIVE:

1.1 To lay down a procedure for cleaning and Operation of Air Jet Cleaner Machine with turn table.

2.0 SCOPE:

2.1 This procedure is applicable to the cleaning and operation of Air Jet Cleaner Machine in production area.

3.0 RESPONSIBILITY:

3.1 Technical Associate : Cleaning and Operation of Air Jet Cleaning Machine

3.2 Officer and Executive : Supervision of cleaning and operation of machine

3.3 Head Production : SOP compliance

3.4 IPQA Person : Line Clearance

4.0 DEFINITION (S):

4.1 NA

5.0 PROCEDURE:

5.1 CLEANING

5.1.1 This is a cleaning procedure applicable for cleaning after completion of every batch/or any maintenance activity.

5.1.2 Ensure that the air jet cleaner machine with turn table is switched “OFF”.

5.1.3 Replace EQUIPMENT STATUS label with UNDER CLEANING status label with date and signature of production officer.

5.1.4 Clean the turn table with the help of clean dry lint free cloth followed by wet lint free cloth.

5.1.5 Ensure that the compressed air supply is closed and wipe the air nozzles with dry lint free cloth followed by wet lint free cloth.

5.1.6 Open the inlet and outlet bottle inverter and clean them with clean dry lint free cloth followed by clean wet lint free cloth.

5.1.7 Wipe the surface of air jet cleaning machine with dry lint free cloth followed by wet lint free cloth.

5.1.8 Wipe the air nozzles with 70 % v/v IPA.

5.1.9 Replace the “UNDER CLEANING” status label with “CLEANED” status label with date and signature of production officer and QA officer.

5.1.10 Record the cleaning start time in the Equipment usage log sheet as per SOP (Making entries in equipment usage and cleaning log sheet).



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5.2 OPERATION

- 5.2.1 Replace "CLEANED" label with EQUIPMENT STATUS label with date and signature of Production Officer.
- 5.2.2 Enter the start time in the equipment usage log sheet as per SOP (Making entries in equipment usage and cleaning log sheet).
- 5.2.3 Switch "ON" the mains from electrical panel.
Open the valve of compressed air supply.
- 5.2.4 Switch "ON" the machine from the control panel.
Load the required no of bottles in to the turn table
- 5.2.5 As the turn table is filled with bottles the sensor of turn table senses the bottle and the air jet cleaning machine gets started.
- 5.2.6 The Blow of air starts from the nozzles as **FIRST** bottle passes through the sensor present before the inlet of bottle inverter. The suction of air starts from the nozzles as **SECOND** bottle passes through the sensor present before the inlet of bottle inverter. This process is alternative as bottle passes in front of the sensor of inlet of Bottle inverter.
- 5.2.7 The dust particles in the bottle will transform into the air borne particle by purging of air and these air borne particles will be sucked by the suction.
- 5.2.8 The bottle gets inverted in the first bottle inverter so designed as per dimension of the Bottle. The bottle comes to its original position after cleaning when passed through second bottle inverter.
- 5.2.9 After completion of batch enter the completion time in the equipment usage log sheet as per SOP (Making entries in equipment usage and cleaning log sheet).
- 5.2.10 Put the "UNDER CLEANING" label dully filled and signed with production officer.
- 5.2.11 After completion of operation, clean the equipment within 72 hours if not in use.

6.0 ABBREVIATION (S):

- 6.1 QA : Quality Assurance
- 6.2 SOP : Standard Operating Procedure
- 6.3 v/v : Volume/Volume

7.0 RERERENCE (S):

- 7.1 SOP, Making entries in equipment usage and cleaning log sheet.

8.0 ANNEXURE (S):

- 8.1 Nil



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9.0 DISTRIBUTION:

9.1 **Master Copy** : Quality Assurance

9.2 **Controlled copy (S)** : Production department (02), Quality Assurance (01)

9.3 **Reference copy (S)** : Production department (01)

10.0 REVISION HISTORY:

S.No.	Version No.	Change Control No.	Reason (s) for Revision	Details of revision	Effective Date