



PHARMA DEVILS

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE

Department: Production (External Preparation)	SOP No.:
Title: Cleaning and Sanitization of Transfer Pump, SS Tank, SS Pipe & Hose Pipe	Effective Date:
Supersedes: Nil	Review Date:
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1.0 OBJECTIVE:

To lay down a Procedure for Cleaning and Sanitization of Transfer pump, SS tank, SS pipe & Hose pipe.

2.0 SCOPE:

This SOP is applicable for Cleaning and Sanitization of Transfer pump, SS tank, SS pipe & Hose pipe of Ointment Section.

3.0 RESPONSIBILITY:

Production Officer/Executive

4.0 ACCOUNTABILITY:

Head-Production

5.0 ABBREVIATIONS:

No. Number
S.S. Stainless Steel
SOP Standard Operating Procedure

6.0 PROCEDURE:

6.1 PRECAUTION: Use Hand Gloves and nose mask during the cleaning and Sanitization of Transfer pump, SS tank, SS pipe & Hose pipe.

6.2 PROCEDURE FOR CLEANING & SANITIZATION OF TRANSFER PUMP:

6.2.1 Type A (Batch to Batch and shift Closed):

6.2.1.1 Remove the previous product label.

6.2.1.2 Unscrew the clamp and remove the product pipe line in bulk holding tank/multi mixture.

6.2.1.3 Clean the pipe and pump by purified water and dry mop externally by lint free Cloth.

6.2.1.4 Clean the pump body with lint free cloth.

6.2.1.5 Ensure that while cleaning there is no water contact with the electrical part of the pump.

6.2.1.6 Check & ensure the cleaning of transfer pump by production officer and affix the Cleaned status label.

6.2.1.7 Maintain the details of cleaning in the Equipment log book.

6.2.2 Type B (Product to Product):

6.2.2.1 Remove the previous product label.



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- 6.2.2.2 Unscrew the clamp and remove the product pipe line from bulk holding tank/multi mixer, unscrew the transfer pump part and clean the pipe line and pump by purified water.
- 6.2.2.3 Clean with hot purified water (75°C-80°C) while brushing if when / whenever required.
- 6.2.2.4 Now apply Extran MA02 solution 2% v/v and making sure that all parts are coming on contact with Extran MA02 solution.
- 6.2.2.5 Clean Extran MA02 solution with purified water using brushing / scrubbing the surface.
- 6.2.2.6 Rinse with hot purified water to remove Extran MA02 till there is no formation of foams is seen in drain water.
- 6.2.2.7 If foams are seen further rinse equipment with hot purified water.
- 6.2.2.8 Rinse the equipment further 3 times with purified water and dry with compressed air or dry lint free cloth.
- 6.2.2.9 Collect the sample and send to QC lab for rinse water analysis.
- 6.2.2.10 Affix "CLEANED" status label.
- 6.2.2.11 Maintain the details of cleaning in the Equipment log book.

6.3 PROCEDURE FOR CLEANING & SANITIZATION OF SS TANK:

6.3.1 Type A (Batch to Batch):

- 6.3.1.1 Remove the previous product label.
- 6.3.1.2 Remove the product in the SS tank and clean with purified water and dry mop externally by lint free cloth.
- 6.3.1.3 Clean the outer body of SS tank with lint free cloth.
- 6.3.1.4 Check & ensure the cleaning of SS tank by production officer and affix the cleaned status label.
- 6.3.1.5 Maintain the details of cleaning in the Equipment log book.

6.3.2 Type B (Product to Product):

- 6.3.2.1 Remove the previous product label.
- 6.3.2.2 Remove the product in the SS tank and clean with purified water.
- 6.3.2.3 Unscrew the clamp and remove the product pipe line from bulk holding tank/multi mixer and clean the pipe line and pump by purified water.
- 6.3.2.4 Clean with hot purified water (75°C-80°C) while brushing if when / whenever required.



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- 6.3.2.5 Now apply Extran MA02 solution 2% v/v and making sure that all parts are coming on contact with Extran MA02 solution.
- 6.3.2.6 Wash Extran MA02 solution with purified water while brushing / scrubbing the surface.
- 6.3.2.7 Rinse with hot purified water to remove Extran MA02 till there is no formation of foams is seen in drain water when collected and shaken vigorously.
- 6.3.2.8 If foams are seen further rinse equipment with hot purified water.
- 6.3.2.9 Rinse the equipment further 3 times with purified water.
- 6.3.2.10 Collect the sample and send to QC lab for rinse water analysis.
- 6.3.2.11 Check & ensure the cleaning of SS tank by production officer and affix the cleaned status label.
- 6.3.2.12 Maintain the details of cleaning in the Equipment log book.
- 6.3.3 B-Type Cleaning:**
 - 6.3.3.1 After 48 hrs of type A-Type cleaning.
 - 6.3.3.2 Product Change Over.
 - 6.3.3.3 Change over to Lower strength of same product.
 - 6.3.3.4 After maintenance or major breakdown.
 - 6.3.3.5 Change over to upper strength with different color.
 - 6.3.3.6 If the Equipment is not used within 72 hrs clean the equipment before use.
 - 6.3.3.7 After every 5 batches of same product in case of campaign product.
 - 6.3.3.8 Maintain the details of cleaning in the Equipment log book.

6.4 PROCEDURE FOR CLEANING & SANITIZATION OF SS PIPE AND HOSE PIPE:

6.4.1 Procedure for cleaning.

- 6.4.1.1 SS pipe and hose pipe shall be brought to the washing area and remove the "To be cleaned label" from the SS pipe and hose pipe.
- 6.4.1.2 Wet the inner and outer surface of the SS pipe and hose pipe with Purified water and allow them such for minimum 3 minutes.
- 6.4.1.3 Scrub the inner and outer surface of the SS pipe and hose pipe with scrubber using purified water to remove any adhered material.
- 6.4.1.4 Now apply Extran MA02 solution 2% v/v and making sure that all parts are coming on contact with Extran MA02 solution.



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9.0 REFERENCE:

Not Applicable.

10.0 REVISION HISTORY:

CHANGE HISTORY LOG

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

