



Cleaning and Operation of Sugar Transfer System

1.0 OBJECTIVE

1.1 To lay down a procedure for Cleaning and Operation of sugar transfer system.

2.0 SCOPE

2.1 This procedure is applicable for Cleaning and Operation of sugar transfer system in Liquid orals.

3.0 RESPONSIBILITY

3.1 Technical associate Production - for Execution

3.2 Officer/ Executive Production Department- for verification and implementation of SOP

3.3 Head Production Department- shall ensure compliance of the SOP.

4.0 DEFINITION(S)

4.1 NA

5.0 PROCEDURE

5.1 Cleaning

5.1.1 Remove "TO BE CLEANED" label and affix "UNDER CLEANING" label as per reference SOP (Status labeling)

5.1.2 **Cleaning to be done along with sugar dissolving tank after each transfer.**

5.1.3 Ensure that all the sugar transfer to sugar dissolving tank from sugar transfer line.

5.1.4 Start vacuum in sugar dissolving tank.

5.1.5 Open the outlet valve No.02 and inlet valve no.01 of sugar transfer line.

5.1.6 Take approx 100.0L purified water in SS container and supply through inlet of sugar transfer line to sugar dissolving tank.

5.1.7 Switch Off the vacuum and disassemble the sugar transfer pipeline by opening the triclover clamp and gasket.

5.1.8 Individually clean the detachable transfer line, gasket and triclover clamp with sufficient quantity of purified water.

5.1.9 Again reassemble the sugar transfer line with gasket and triclover clamp.

5.1.10 Reapply the vacuum to the sugar-dissolving tank.

5.1.11 Take approx 250.0L hot purified water in SS container and transfer through inlet of sugar transfer line to sugar dissolving tank.

5.1.12 After completion of transfer of the purified water continue to apply vacuum for not less than 10 minutes



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- 5.1.13 Switch Off the Vacuum and verify for any possible water droplet in the sugar transfer line. In case of presence of water droplet, reapply vacuum for further 10 minute. (Continue to repeat the process till complete drying of the sugar transfer line)
- 5.1.14 Mop the transfer line with dry lint free cloth from out side.
- 5.1.15 After dry, Cover with aluminium foil on inlet tip of transfer line.
- 5.1.16 Put 'CLEANED' status label as per SOP having Equipment ID No./Area, Previous product, previous batch no., Done by Production and checked by QA with signature and date
- 5.1.17 Record the details of activity in equipment usage log sheet and check the cleaning activity as per Annexure– I.(Cleaning checklist of sugar transfer system).

5.2 Operation

- 5.2.1 Ensure that sugar dissolving tank and sugar transfer line is cleaned.
- 5.2.2 Take line clearance from QA, then put the "EQUIPMENT STATUS" label on sugar transfer system.
- 5.2.3 Put wire mesh on SS container.
- 5.2.4 Put the earthing wire's one tip to SS container and other on earthing point.
- 5.2.5 Start the vacuum in sugar dissolving tank and create vacuum in tank.
- 5.2.6 Open the outlet valve no.02 and inlet Valve No.01 of sugar transfer line.
- 5.2.7 Unload one by one sugar polybag in SS container through on wire mesh.
- 5.2.8 Insert the inlet of sugar transfer line into SS container containing sugar through center of wire mesh.
- 5.2.9 Start sugar to transfer through sugar transfer line in to sugar dissolving tank.
- 5.2.10 After completion of sugar transfer, switch OFF the vacuum.
- 5.2.11 Close the outlet valve no. 02 of sugar transfer line.
- 5.2.12 Affix "TO BE CLEANED" label on the equipment during No activity and affix "UNDER CLEANING" label during cleaning of the equipment as per reference SOP (Status labeling).
- 5.2.13 Record the details of activity in equipment usage log sheet as per reference SOP (Making entries in equipment usage and cleaning log sheet).

6.0 ABBREVIATION (S)

- 6.1 SOP: Standard Operating Procedure.
- 6.2 No. : Number
- 6.3 NA : Not applicable

7.0 REFERENCE (S)

- 7.1 SOP: Making entries in equipment usage and cleaning log sheet
- 7.2 SOP: Status labeling



PHARMA DEVILS

PRODUCTION DEPARTMENT

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8.0 ANNEXURE (S)

Annexure no.	Title of Annexure	Format no.	Mode of Execution
Annexure I	Cleaning Checklist of Sugar Transfer System		Log Book

9.0 DISTRIBUTION

9.1 **Master copy** : Quality Assurance

9.2 **Controlled copy (s)** : Production department (01), 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



PHARMA DEVILS

PRODUCTION DEPARTMENT

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ANNEXURE I

CLEANING CHECKLIST OF SUGAR TRANSFER SYSTEM

Name of the Equipment: Sugar transfer system

Previous product:

Equipment I.D. No.:

Batch No.:

Date:

S.No.	Activity	Activity Performed
1.	Take approx 100 litres purified water in SS container and supply through inlet of sugar transfer line to sugar dissolving tank.	
2.	Switch Off the vacuum and disassemble the sugar transfer pipeline by opening the triclover clamp and gasket.	
3.	Separately clean the detachable transfer line, gasket and triclover clamp with sufficient qty. of purified water.	
4.	Again reassembled the sugar transfer line with gasket and triclover clamp.	
5.	Reapply the vacuum to the sugar-dissolving tank.	
6.	Take approx 250-liter hot purified water in SS container and transfer through inlet of sugar transfer line to sugar dissolving tank.	
7.	After completion of transfer of the purified water continue to apply vacuum for not less than 10 minutes	
8.	Switch Off the Vacuum and verify for any possible water droplet in the sugar transfer line. In case of presence of water droplet, reapply vacuum for further 10 minute.	
9.	Mop the transfer line with dry lint free cloth from out side.	
10.	After dry, Cover with aluminum foil on inlet tip of transfer line.	

Checked By (Prod.)
Sign/date

Verified By (QA)
Sign/date

Note: Put '√' mark if activity performed and put 'X' if activity not performed.