



**Title:** Cleaning and Sanitization of High Density Poly Ethylene Soft Water

<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 4

**1.0 OBJECTIVE:**

To lay down a procedure for Cleaning and Sanitization of High Density Poly Ethylene Soft Water Storage Tank.

**2.0 SCOPE:**

This SOP is applicable for Cleaning and Sanitization of High Density Poly Ethylene Soft water Storage Tank at .....

**3.0 RESPONSIBILITY:**

Officer / Executive - Engineering

**4.0 ACCOUNTABILITY:**

Head – Engineering

**5.0 DEFINITION:**

**5.1 Cleaning** is the process of removing unwanted substances, such as dirt, infectious agents, and other impurities, from an object or environment.

**5.2 Cleaning** process removes residues of the active pharmaceutical ingredients of the product manufactured in a piece of equipment, the cleaning aids utilized in the cleaning process and the microbial attributes.

**5.3 Sanitization** maintaining environmental control including microbiological contamination in a pharmaceutical manufacturing environment is primarily dependent on the facility sanitization program. Sanitization considerations are specific for facility rooms, equipment, and personnel. Sanitization comprises cleaning and disinfection.

**6.0 PROCEDURE:**

**6.1** Pump Out/Empty out the Water from the Storage Tank with the help of Drain Valve & Plastic Bucket.

**6.2** Scrub the Sides (Walls) of the Tank with Nylon Wire Brush & Remove the Dirt found if any to outside.

**6.3** Scrub the Inner Surface and Bottom surface of the Tank with Nylon Wire Brush and remove the Deposited Dirt from the Tank (if found).

**6.4** Prepare 30 ppm of Sodium Hypochlorite Solution as 17 Liters of NaOCl and dilute it up to 40 Liters with Water.



**Title:** Cleaning and Sanitization of High Density Poly Ethylene Soft Water

<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>	2 of 4

- 6.5** Wear Oxygen Respirator, Hand Gloves, Safety Shoes, Helmet, Safety Belt, Goggles etc. safety items before entering inside the tank.
- 6.6** Take above solution into Soft water 03KL storage tank and flush out the Inner Surface of tank thoroughly with 500 Liters of Soft water
- 6.7** Then collect 1500 Liters of Soft water (Approximately) in each 03 KL Storage Tank.
- 6.8** Close the Lid of the Tank and hold the Solution for about 2 hours and Drain Out the whole Solution from the both Tank.
- 6.9** Fill again Soft water Storage Tank with approximately 500 Liters of Soft water; Flush Out and Drain (Repeat two times).
- 6.10** Fill again Soft water Storage Tank with approximately 1500 Liters of Soft water & Drain Out.
- 6.11** If traces are not removed then wash the tank with Soft water till the satisfactory result shall obtain.
- 6.12 Frequency:** Monthly  $\pm$  5 Days
- 6.13** Record the Cleaning Details in “**Cleaning and Sanitization Record of High Density Poly Ethylene Soft water Storage Tank**” as shown in **Annexure-I**.

**7.0 ABBREVIATIONS:**

QA	Quality Assurance
QC	Quality Control
KL	Kilo Liter
HDPE	High Density Poly Ethylene
KL	Kilo Liters
ppm	Parts Per Million
ID No.	Identification Number

**8.0 ANNEXURES:**

<b>ANNEXURE No.</b>	<b>TITLE OF ANNEXURE</b>	<b>FORMAT No.</b>
Annexure-I	Cleaning and Sanitization Record of High Density Poly Ethylene soft, Water Storage Tank	

**9.0 DISTRIBUTION:**

- Controlled Copy No. 01                      Head Engineering



