



Title: Chlorination of Water

SOP No.:

Revision No.:

00

Effective Date:

Supersedes No.

Nil

Review Date:

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1.0 OBJECTIVE

To describe a procedure for the operation of Chlorination of raw water.

2.0 SCOPE

This procedure applies to the Engineering department.

3.0 RESPONSIBILITY

Engineering

4.0 ACCOUNTABILITY

Plant head

5.0 REFERENCE (S)

In-house.

6.0 PROCEDURE

6.1 Procedure of chlorination of raw water.

- 6.1.1 Take 80ml of 6% Naocl in 11 liters of raw water as per annexure-1. Put this solution in Naocl solution preparation tank and mixed properly.
- 6.1.2 Close the valve v-4 & open the valve v-3 of main supply.
- 6.1.3 Start the raw water supply pump.
- 6.1.4 Open the valve v-4 and start the dosing pump, DP-1 by pressing the start button, for injection of solution to the raw water supply line.
- 6.1.5 Now take 50 ml sample of chlorinated water from sampling point s-2, in a glass tube.
- 6.1.6 Measure 5ml of the reagent (chorotex) into a glass cylinder & add rapidly to this, 50 ml of water under test.
- 6.1.7 Mix thoroughly; allow standing for one minute and then comparing the color of sample with the color chart given on chlorotex bottle.
- 6.1.8 Check the chlorine content in the water .it should be between 0.2-0.5ppm and record the observations as per Annexure-1 of SOP.
- 6.1.9 Set the discharge of dosing pump, so that the chlorine content in the water corresponds to the required chlorine value (0.2-0.5) ppm.
- 6.1.10 Frequency of making Naocl solution is one time per day/24 hrs or as per requirement.

7.0 HISTORY

Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE

8.0 ABBREVIATIONS: The abbreviations used in the SOP are as follows:

- SOP - Standard Operating Procedure
No. - Number
DP - Dosing pump
NaOCl - Sodium hypochlorite solution



PHARMA DEVILS

ENGINEERING DEPARTMENT

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ANNEXURE-1

S.No	DATE	6% Naocl SOLUTION		PREPARED BY	CHECKED BY	REMARKS
		NaOCl ml	WATER Ltrs.			