



**Title:** Dosing of Sodium Metabisulphite Solution in Potable 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 3

**1.0 OBJECTIVE:**

To lay down a procedure for Dosing of Sodium Metabisulphite Solution in Potable Water.

**2.0 SCOPE:**

This SOP is applicable for Dosing of Sodium Metabisulphite Solution in Potable Water.

**3.0 RESPONSIBILITY:**

Officer / Executive - Engineering

**4.0 ACCOUNTABILITY:**

Head – Engineering

**5.0 ABBREVIATIONS:**

No.            Number  
QA            Quality Assurance  
Ltd.           Limited  
RO            Reverse Osmosis  
kg            Kilogram  
Hr            Hour  
SMBS        Sodium Metabisulphite

**6.0 PROCEDURE:**

**6.1 GENERAL INSTRUCTIONS:**

**6.1.1** Ensure the Sodium Metabisulphite Material for its “**APPROVED**” Status Label.

**6.1.2** Not to use unapproved Material.

**6.1.3** Always use fresh Sodium Metabisulphite Solution.

**6.1.4** Mention the Validity of prepared solution on Status Label.

**6.1.5** Wear Hand Gloves while handling the Chemicals.

**6.1.6** Use Calibrated weighing balance for solution preparation.

**6.2 SOLUTION PREPARATION:**

**6.2.1** Calculate the quantity of Sodium Metabisulphite for 4% of solution according assay value as per formula mentioned below.



# PHARMA DEVILS

ENGINEERING DEPARTMENT

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$$\text{Quantity of chemical used} = \frac{\text{Solution Qty X \% of Solution}}{\text{Chemical Assay Value}}$$

**6.2.2** Measure by weighing of Sodium Metabisulphite and transfer it into SMBS dosing tank Add 40 Liter of RO Water to make 4% NaOCl solution.

**6.2.3** Mix up solution thoroughly in SMBS dosing tank and close the lid.

**6.2.4** Set the Dosing Pump flow rate by rotating Knob at the rate 2.88 Liter/Hr. i.e. approx 4ppm.

**6.2.5** Check chlorine ppm level by chlorine test indicator after regular interval of time when plant in operation it should be maintained Zero/Nil.

**6.2.6** Record the observations in “**Dosing of Sodium Metabisulphite Solution Record**” as shown in **Annexure-I**.

**6.3 Frequency for Solution Preparation:** Every Shift / 12 Hrs.

## 7.0 ANNEXURES:

ANNEXURE No.	TITLE OF ANNEXURE	FORMAT No.
Annexure-I	Dosing of Sodium Metabisulphite Solution Record	

## 8.0 DISTRIBUTION:

- Controlled Copy No. 01                      Head Engineering
- Master Copy                                      Quality Assurance Department

## 9.0 REFERENCES:

Not Applicable

## 10.0 REVISION HISTORY:

### CHANGE HISTORY LOG

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

