

Title: Dosing of Sodium Metabisulphite Solution in Potable Water	
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Effective Date:	Supersedes	Nil
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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 DEFINITION:

Potable water (Drinking water) is used for drinking purpose and stored in water Cooler through Aqua Guard Water Purification system.

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.

Quantity of chemical used = Solution Qty. X % of Solution

Chemical Assay Value



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- **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 ABBREVIATIONS:

No. Number

QA Quality Assurance

Ltd. Limited

RO Reverse Osmosis

kg Kilogram

Hr Hour

SMBS Sodium Metabisulphite

8.0 ANNEXURES:

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

9.0 **DISTRIBUTION:**

• Controlled Copy No. 01 Head Engineering

• Master Copy Quality Assurance Department

10.0 REFERENCES:

Not Applicable



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11.0 REVISION HISTORY:

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





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ANNEXURE – I

DOSING OF SODIUM METABISULPHITE SOLUTION RECORD

Location: Source: Borewell

Frequency for Solution Preparation: Every shift / $12~\mathrm{Hrs}.$

Date	Purity/Assay of SMBS	Qty. of SMBS Taken	Added	Prepared for Dosing	(1121 2:00	Discard Qty. (Ltr.)	Done By (Sign & Date)	Checked By (Sign & Date)
	or Sivids	(For 4%)	(For 4%)	(40 Liters)	Ltr./Hr.)	(Litt.)	(Sign & Date)	(Sign & Date)