



Title: Dosing of Sodium Hydroxide Solution in Ultrafiltration Treated Water

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1.0 OBJECTIVE:

To lay down a procedure for Dosing of Sodium Hydroxide Solution in Ultra Filtration Treated Water.

2.0 SCOPE:

This SOP is applicable for Dosing of Sodium Hydroxide Solution in Ultra Filtration Treated Water.

3.0 RESPONSIBILITY:

Officer/Executive - Engineering

4.0 ACCOUNTABILITY:

Head – Engineering

5.0 ABBREVIATIONS:

SOP Standard Operating Procedure
No. Number
Ltd. Limited
QA Quality Assurance
UF Ultra filtration
kg Kilogram
hr Hour

6.0 PROCEDURE:

6.1 GENERAL INSTRUCTIONS:

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

6.1.2 Not to use unapproved Material.

6.1.3 Always use fresh Sodium Hydroxide 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 Beakers/Cylinders for solution preparation.

6.2 SOLUTION PREPARATION:

6.2.1 Take 9.0 Kg of Sodium Hydroxide and transfer it into Sodium Hydroxide Solution Dosing Tank.



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- 6.2.2** Add 90 liters of RO water in to tank and mix it properly. Make up the Volume 100 Liters. Solution will be of 10% concentration.
- 6.2.3** Cover the lid of this Dosing Tank.
- 6.2.4** Set the Dosing Pump knob at the rate 3 liters/hr.
- 6.2.5** Start the dosing of Sodium Hydroxide Solution in the Ultra Filtration treated water before its Storage Tank.
- 6.2.6** Check the pH of UF.treated Water after Sodium Hydroxide Dosing and ensure that it is between 8.0 to 9.0.
- 6.2.7** In case any decrease/increase in pH of Ultra Filtration treated water, adjust the pH by increasing/decreasing dosing rate.
- 6.2.8** Record the observations in “**Dosing of Sodium Hydroxide Solution Record**” as shown in **Annexure-I**.

7.0 ANNEXURES:

ANNEXURE No.	TITLE OF ANNEXURE	FORMAT No.
Annexure-I	Dosing of Sodium Hydroxide 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

