



**Title:** Procedure for Passivation

<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 1

**1.0 OBJECTIVE**

1.1 To describe a procedure for the passivation.

**2.0 SCOPE**

2.1 This procedure applies to the Engineering department.

**3.0 RESPONSIBILITY**

3.1 Engineering

**4.0 ACCOUNTABILITY**

4.1 Plant Head

**5.0 REFERENCE (S)**

5.1 In-house

**6.0 PROCEDURE**

6.1 Procedure for mechanical work:

6.1.1 Switch off the machine, close inlet valve.

6.1.2 Collect 200 Ltr purified water in 700 Ltr storage tank T-2101 and add 20 Ltr of Nitric acid.

6.1.3 Open the pump suction valve & keep the recirculation pump P-2101 on by selecting the switch in on position to keep the tank water in agitated condition for better mixing of the chemical.

6.1.4 Circulate the diluted Nitric Acid in the recirculation line for about 1-2 hrs.

6.1.5 Drain all water from distribution line and storage tank T-2101 by opening the drain valves.

6.1.6 Add fresh purified water in the storage tank T-2101 and recirculate for more than 1 hour.

6.1.7 Drain all the water from the purified water system.

6.1.8 Check for pH of the distribution system at various sampling points.

6.1.9 Repeat the steps 6.1.6 & 6.1.7 until get the pH within acceptance criteria of 5 to 7.

**7.0 HISTORY**

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE

**8.0 ABBREVIATIONS:** The abbreviations used in the SOP are:

8.1 SOP - Standard Operating Procedure

8.2 No. - Number

8.3 QA - Quality Assurance