



**Title:** Operation of Purified Water Distribution System

<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**

1.1 To describe a procedure for the operation of Purified Water distribution system.

**2.0 SCOPE**

2.1 This procedure applies to the Engineering department.

**3.0 RESPONSIBILITY**

3.1 Mechanical Engineer - Engineering

**4.0 ACCOUNTABILITY**

4.1 Unit Head

**5.0 REFERENCE (S)**

5.1 In-house.

**6.0 PROCEDURE**

- 6.1 Ensure that the valve V-2104 is close.
- 6.2 Fill the purified water tank T -2101 upto 70% level. Check the level of water from the main panel.
- 6.3 Open the valve V- 2105 & V- 2107 and main air supply A-1.
- 6.4 Start the electrical supply for UV from the main panel.
- 6.5 Start the pump P-2101 and ensure that the pressure at the pressure gauge PG-2101 should be between 2.0-3.0 kg/cm<sup>2</sup>.
- 6.6 Now check the pressure of the water coming back to tank-2101 from the pressure gauge PG-2102. It should not be less than 0.2 kg/cm<sup>2</sup>.
- 6.7 Also note the water flow rate; it should not be less than 1.5m<sup>3</sup> /hr.
- 6.8 Check the conductivity of water from at conductivity meter. It should be less than 1µs/cm. If conductivity is higher than limit, then auto dump valve will open and water will drain out. and again fill the purified water tank.
- 6.9 Frequency of taking reading is after 2 hours as per Annexure-1.
- 6.10 The vent filter replacement frequency is six months.

**7.0 HISTORY**

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE



# PHARMA DEVILS

ENGINEERING DEPARTMENT

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**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
- 8.4 PW - Purified water.
- 8.5 FT -Flow transmitter



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**Annexture-1**

Date					
Time					
Ultra filtration water system Tank no-2001	UV reading Hrs				
	Conductivity Limit NMT 1 $\mu$ s/cm				
	p H 6-7.5				
	Pump Pressure 2-3 kg/cm <sup>2</sup>				
	Pr Across UV NMT 1 kg/cm <sup>2</sup>				
Purified water system Tank no-2101	UV reading Hrs				
	Conductivity Limit NMT 1 $\mu$ s/cm				
	Pump Discharge Pr 2.0-3.0 kg/cm <sup>2</sup>				
	Pump Return Pr NLT 0.2 kg/cm <sup>2</sup>				
	Flow rate NLT 1.5m <sup>3</sup> /hr.				
Done by					
Checked by					
Remarks					