



Title: Preventive Maintenance of Demineralisation Water Plant

SOP No.:		Revision No.:	00
Effective Date:		Supersedes No.	Nil
Review Date:		Page No.	1 of 3

1.0 OBJECTIVE

1.1 To describe a procedure for the preventive maintenance of DM plant.

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 of mechanical work:

6.1.1 Switch off the power supply of the machine and put "under maintenance" label.

6.1.2 Clean and lubricate the entire diaphragm valve by using grease.

6.1.3 Check for any leakage from the flanges and if it is so, then tighten the same.

6.1.4 Clean the injector assembly by flushing the fresh water.

6.1.5 Clean the filter of the suction line for NaOH and HCL.

6.2 Procedure of electrical work:

6.2.1 Clean the electrical panel using compressed air.

6.2.2 Check the connection of the entire field wiring along with power connection.

6.2.3 Check the connection of all the sensors and clean them using compressed air.

6.3 Procedure of trial run:

6.3.1 Switch on the power supply and open the valves.

6.3.2 Check & record the observations as per Annexure-.

6.4 Procedure of handover of the plant:

6.4.1 Remove under maintenance label & affix preventive maintenance status tag and inform the concerned department.

6.5 Frequency of preventive maintenance is once in two months.

7.0 HISTORY

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE



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8.0 ABBREVIATIONS: The abbreviations used in the SOP are as follows:

- 8.1 SOP - Standard Operating Procedure
- 8.2 No. - Number
- 8.3 QA - Quality Assurance
- 8.4 MP - Multi Purpose



PHARMA DEVILS

ENGINEERING DEPARTMENT

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ANNEXURE-I

PREVENTIVE MAINTENANCE CHECK LIST FOR DM PLANT

Equipment ID No. _____

Date: _____

S.No.	Particulars	Done/Not Done	Remarks
1	Check electrical connections		
2	Check quality of prefilter like coal		
3	Check of leakages from valves & flanges.		
4	Check pH, SS, TDS regularly to maintain the quality of water.		
5	Check for any pipe leakage.		

Done by
(Sign & date)

Checked by
(Sign & date)