

PHARMA DEVILS

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE				
Department: Production	SOP No.:			
Title: Regeneration of Soft Water Plant	Effective Date:			
Supersedes: Nil	Review Date:			
Issue Date:	Page No.:			

Purp	ose:	To l	av	down c	perating	procedure	for reger	neration	of soft	water	plant.

Scope: This procedure is applicable to

Responsibility: Production Chemist

To supervise the activity

Equipment used: Softener (Indion NGS - 3B)

Regeneration procedure:

Brine injection:

- 1. Prepare NaCL solution by dissolving 16.0 kg NaCL in 32.0 liters water.
- 2. Add NaCL solution to brine tank.
- 3. Puch down hand lever valve (multiport valve) and move it to REGENERATION/SLOW

RINSE POSITION.

- 4. Start the feed water pump and adjust delivery valve pressure between 3.0 to 3.5 kg/cm²
- 5. Time 10 to 15 minutes.

Brine/slow rinse:

- 1. Remove the brine solution-feeding pipe.
- 2. Leave multiport valve in same position as in brine injection
- Time 10 to 20 minutes.

Fast rinse:

- 1. Switch off the feed water pump.
- 2. Move multiport valve by pressing down to FAST RINSE position and release it.
- 3. Switch on the feed water pump.
- 4. After 5 minutes take sample from the drain pipe test for hardness with the INDION SAMPLE TEST KIT.
- 5. When the results shows hardness to be within desired limit, switch off the pump, moves the valve hand lever to service position. Switch on the pump.
- 6. Open the delivery valve, placed between hand liver valve and by pass valve.



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Soft water plant regeneration record

Date	Amount of NACL used in kg	Quantity of water regenerated (lit)	Hardness PPM	Done By	Checked by	Remarks