

# Purified Water Generation System for Caplin Point Laboratories Ltd.

Pharmaceuticals | Case Study

## The Client

Caplin Point Laboratories is one of the fastest growing mid-cap pharmaceutical companies in India. Company holds over 2000 product licenses across the globe, with a dominant position in Latin America. Company is entering into Regulated markets of US, EU, Brazil, Mexico, Australia, with a state of the art manufacturing facility for Injectables, already approved by EU-GMP, ANVISA and awaiting US FDA inspection and approval.

## Benefits to Client:

- Clear Water offered a complete range of service from design engineering, procurement, project execution, installation & commissioning to required Validation services.
- Clear Water's solution allowed integration of new system within the existing system with the fully automated operation through their PLC.

## Key Success Factors:

- Full Plug & Play solution with the Skid mounted units.
- Adaptable and able to integrate the existing facilities.
- Validation services for the system.

## The Quote:

*"We are satisfied with the Clear Water's Design, Engineering & Plant Performance and would not be hesitate to refer them to other client and our other projects."*

*- Head Projects*

## Key Figures

- Contract Type: LSTK
- Awarded: September 2014
- Processes: Pre-Treatment, Ultra-Pure Water
- Capacity: 15 m<sup>3</sup>/h

## The Client's Need

Caplin Point Laboratories Limited, Unit – IV (CP-IV) located at Gummidipoondi, Chennai is a US FDA, EU-GMP, ANVISA and INVIMA approved manufacturing facility handling Pharmaceutical formulations in Specialized Injectable dosage forms and Ophthalmic drops. The facility is designed with a high level of sophistication and automated process control and is in compliance with norms stated by US FDA, UK MHRA and other regulatory bodies belonging to PIC/s.

The raw water Pre-treatment plant was facing the Pathogen issue thereby affecting the product quality.

Clear Water has been awarded a new contract for the design and installation of a complete Water Pre-treatment and Ultra-Pure Water Facilities.

## The Solution

The plant features many of the advanced water technologies, including:

- Water Pre-treatment: 15 m<sup>3</sup>/h of MGF-Softener-UF
- Ultra-Pure Water System: 7.5 m<sup>3</sup>/h of HSRO with Hot Water Sanitization.

### Process Description:

A raw water is treated through a series of Multi-Barrier treatment scheme to meet the stringent standards set by Caplin Point Laboratories.

Raw water is treated in a pre-treatment scheme consisting of Multi Grade Filter followed by Softener and chemical Sanitizable Ultrafiltration system to achieve the process water quality as desired by client. This process water is further treated by an advance Hot Water Sanitizable reverse osmosis system to meet the Purified Water System.

The new Purified water system is integrated within the existing raw water treatment system.



## Clear Water Company

Unit No 05, Building No 60,  
Indian Compound, Village -Gundavali,  
Mankoli Naka, Bhivandi - 421308.

[www.clearwater.in](http://www.clearwater.in)