

Ultra-Pure Water System for Mylan Pharmaceuticals Private Limited.

Pharmaceuticals | Case Study

The Client

Mylan is one of the largest generics and specialty pharmaceutical companies in the world, manufacturing and marketing more than 1,400 different medicines to retail, wholesale, government and institutional customers. Mylan has a vast manufacturing platform in India, comprising nine active pharmaceutical ingredient (API), eight oral solid dose (OSD) and eight injectables manufacturing units that serve a number of markets around the world.

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 an increase of the production output and help the Client to meet their one global quality standard vision.

Key Success Factors:

- Full Plug & Play solution with the Skid mounted units.
- Adaptable to meet the facility's growing need.
- Water footprint reduction.

The Quote:

"Clear Water's agile team delivered more than expected of them within the timeframe and cost as agreed. We are happy with their quality of engineering and services."

- Head Projects

Key Figures

- Contract Type: LSTK
- Awarded: July 2016
- Processes: Pre-Treatment, Ultra-Pure Water
- Capacity: 10 m³/h

The Client's Need

Sixteen of Mylan's facilities in India, including eight of its API facilities, are approved by the U.S. Food and Drug Administration (FDA).

Mylan in India expanded a new production line in its **Jegipeth, AP, India facility**. Mylan as a Global Pharmaceutical company, has a one global quality standard across its facilities around the world.

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: 2 x 5 m³/h of MGF-ACF-Softener**
- **Ultra-Pure Water System: 1 x 1.5 m³/h RO-RO-EDI-HSUF 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 Mylan Laboratories.

Raw water is treated in a pre-treatment scheme consisting of Multi Grade Filter followed by Activated Carbon Filter and Softener to achieve the process water quality as desired by client.

This process water is further treated by an advance membrane treatment to meet the Ultra-Pure water specifications. Advance treatment consists of two Pass RO followed by Continuous Electro-Deionization and Hot Water Sanitizable Ultrafiltration system.



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