

Water Treatment Plant for a Specialty Chemicals Major



The Chemical major entered into a long term outsourced utility supply contract with TOESL in December 2018.

Thermax Onsite Energy Solutions Limited (TOESL) provides outsourced utility delivery services based on the **Build-Own-Operate (BOO)** business model, enabling customers to **optimise costs, reduce fresh water consumption** and remain focussed on their **core business**.

The customer is **the second largest manufacturer and supplier of polymer stabilisers in the world**, offering one of the broadest ranges of specialty chemicals for a wide variety of industries, including packaging, automotive, agriculture, textiles and fibres, durable and consumer goods, etc.

Site location: Panoli, Gujarat

Project Overview

For its upcoming greenfield plant in Gujarat, the South Korean specialty chemicals major chose to partner with TOESL for 'green' steam supply deploying an 8 ton biomass boiler along with a captive demineralisation (DM) plant of 6 cubic metre per hour capacity for the treatment of boiler feed water. Through this service contract, the customer is relieved from any operation hassles of the entire boiler and DM plant and hence, can focus on their core operations.

120 KLD Demineralisation (DM) Plant for Steam Generation

TOESL Offering:

The customer was providing boiler feed water from local industrial supply. Thermax designed a 6 m³/hour water treatment plant comprising of filters, strong acid cation softener, degasser followed by strong base anion softener.

The plant is designed to provide boiler feed quality water for efficient boiler operation.

The DM plant is provided as a part of the boiler package, thus optimising operation cost for the customer.

Parameter	Unit	Inlet	Outlet
Total Dissolved Salts	mg/L	180	<5 mg/L (Before pH correction)
pH	-	7-8	8-9 (After pH correction)
Total Hardness	mg/L	150	<5

Benefits to Client

- 1 Optimum cost-effective treated water price
- 2 Guaranteed plant uptime and efficiency throughout the product lifecycle
- 3 Capital investment in water treatment plant by TOESL
- 4 Guaranteed delivery of output parameters
- 5 Comprehensive O&M
- 6 The customer focusses on its core business while TOESL takes charge of steam and DM water supply



THERMAX

Sustainable Solutions in Energy & Environment

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