



Parshvanath Charitable Trust's  
**A. P. SHAH INSTITUTE OF TECHNOLOGY**  
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)  
(Religious Jain Minority)

## DEPARTMENT OF CIVIL ENGINEERING SITE VISIT REPORT

**Subject: - Environmental Engineering 1**

**Site Visit Date: - 05-09-2018**

**Site:-Water Treatment Plant, Bhandup**

**Site Address:- Bhandup water Complex, Khinepada Bhandup. Maharashtra 400709**



As per the curriculum of University of Mumbai , students of Third Year Civil Engineering having Environmental Engineering 1, required to visit a site as a part of their term work.

A site visit was arranged to Bhandup water Complex, Khinepada, Bhandup which is run by Bruhan Mumbai Municipal Corporation, Mumbai.

### **About the Plant:-**

Bhandup Water Treatment plant is established in 1980 is one of the biggest plants in Asia, run by Mumbai Municipal Corporation, in the state of Maharashtra, having capacity 2100 MLD. This 365-acre forest complex in Bhandup is bordered by the Borivli National Park and Yeoor Hills. Around 450 people work round-the-clock in shifts to ensure that over 12 million Mumbaikars receive a continuous supply of clean water from their taps each day.

Raw water from four lakes viz. Tansa, Bhatsa, Vaitarna and Upper vaitarna arrives through trunk mains and into the inlet bay of the Bhandup complex.

To supply safe drinking water is the responsibility of any water utility. In Water Treatment Plant plant the raw water is treated for physical, chemical and biological standards to achieve the required drinking water standards.

At the water-testing laboratory inside the complex, Various tests are performed at every stage every day. There are 20 different sampling pipelines which continuously bring treated water at various stages of the process into the laboratory. Every day, three to four tonnes of chlorine is used to treat water.

In this site visit, students have got the knowledge regarding –

- Functioning of water treatment Plant in actual practice.
- Various essential units of WTP
- Technical details of each unit with their working
- The various routine laboratory tests done on raw as well as pure water.

Remark: PO1, PO2, and PO3 are mapped