



## DEPARTMENT OF CIVIL ENGINEERING SITE VISIT REPORT

**Subject: - Environmental Engineering II (SEM VII)**

**Site Visit Date: - 31-08-2018**

**Site:-Sewage Treatment Plant , Airoli**

**Site Address: - Sewage Treatment Plant, Sector 15, Airoli, Navi Mumbai – 400708**



As per the curriculum of University of Mumbai, students of final Year Civil Engineering having Environmental Engineering II subject required to visit a site as a part of their Termwork.

A site visit was arranged to Sewage Treatment Plant, sector 15, Airoli, Navi Mumbai.

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

The present sewage treatment plant is designed for 800000 inhabitants. The waste water is treated before it islet into the sea. This sewage treatment plant has been designed for Airoli Node in Navi Mumbai with latest C-Tech (Advanced cyclic Activated Sludge Technology) process for an average 80 MLD capacity.

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

- How the treatment of waste water is done in actual practice?
- What are the various essential units of STP?
- Technical details of each unit with their working
- What are the various laboratory tests done on waste water?
- How safe disposal of waste water can be done?

Also they studied the difference between the characteristics of raw and treated waste water which

help them to understand the effectiveness of treatment plant for the discharge of waste water in any river body or creek.

**Remark :** PO1,PO2,PO3 and PO12 are covered.

PSO1 and PSO3 are covered.

<b>PO Covered</b>	<b>Justification</b>
PO1	Students will be able to apply the knowledge of science, engineering fundamentals, and an engineering specialization for the solution of waste water treatment.
PO2	Students will be able to identify, formulate, research literature, and analyze complex engineering problems and reach the solution by using natural sciences, and engineering sciences.
PO3	Students will be able to design the process for the treatment of waste water that meet t h e specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
PO12	Students will have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

<b>PSO Covered</b>	<b>Justification</b>
PSO1	Students will be able to survey environmental engineering problems.
PSO3	Students will be able to work for public health and welfare along with maintaining sanitation.