



DEPARTMENT OF CIVIL ENGINEERING
SITE VISIT REPORT

Subject: - Elective V- Industrial Waste Treatment (SEM VIII)

Site Visit Date: - 14-03-2023

Site:-Common Effluent Treatment Plant, Khairne

Site Address: - P-60, MIDC, Khairane. Thane Belapur Road, Navi Mumbai, Maharashtra 400709

No of Students Attended: - 49

Faculty Co-ordinator: - Prof. Mrunal Joshi



As per the curriculum of University of Mumbai, students of final Year Civil Engineering are studying Elective V-CEDLO8015 – Industrial Waste Treatment. To enhance the knowledge of students a site visit was arranged to Common Effluent Treatment Plant, P 60, MIDC, Khairne run by Thane Belapur Association.

About the Plant: -

CETP (Thane - Belapur) Association, in the Trans Thane Creek industrial Area Navi Mumbai was established in the year 1994 with the objective of minimizing & controlling the pollution load created due to various industrial activities in order to maintain equilibrium between rapid Industrial growth and cleaner environment to ensure proper sustainable development. Also CETP acts as a single point treatment facility and disposal for the industrial especially small scale industries. The total capacity of 27 MLD (12 MLD plant commissioned in 1997 with an additional capacity of 15 MLD plant was commissioned in 2006) and is consistently running well meeting all prescribed norms. This CETP has achieved an enviable position of “one of the best run CETP in India “which was acknowledged by Maharashtra Pollution Control Board by awarding “VASUNDHARA AWARD- 2015 and 2018”.

Common Effluent Treatment Plant helps the industries in easier control of pollution but also act as a step towards cleaner environment and service to the society at large. Common Effluent Treatment plant has been accepted as a solution for collecting, conveying, treating and disposing of effluents from industrial estates. Small and medium scale industries are relieved of the problem of treating their effluents. Waste water treatment is assured, thereby helping pollution control. In this site visit, students have got the knowledge regarding –

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

Students have 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, PO4, PO5 and PO12 are covered.
 PSO1 and PSO2 are covered.

PO Covered	Justification
PO1	Students will be able to apply the knowledge of science, engineering fundamentals, and an engineering specialization for the solution of industrial waste water.
PO2	Students will be able to apply natural sciences, and engineering sciences to solve problems related to industrial waste water.
PO3	Students will be able to design solutions for the problems with appropriate considerations of public health and safety and environmental considerations.
PO 4	Students will be able to design experiments in the field of industrial waste water treatment.
PO5	Students will be able to understand how IT tools are used in running treatment plant.
PO12	Students will have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSO Covered	Justification
PSO1	Students will be able to apply engineering fundamentals, research-based knowledge and modern engineering tools to meet industrial requirements
PSO2	Students will be able to demonstrate the importance of sustainable development and lifelong learning skills