



CHEMICAL ENGINEERING DEPARTMENT

PLANT VISIT TO

VARIYAV-KOSAD SEWAGE TREATMENT PLANT



Chemical Engineering Department organized an industrial visit to Sewage Treatment Plant, Variav-Kosad, Surat on 4th February, 2017. The team that visited the plant comprised of 47 students from 3rd Year, accompanied by faculty members Prof. Jignesh Joshi and Prof. Mazhar Multani.

The students were given a lecture on sewage treatment plant and its functionality by Mrs. Neha Sharan. We were shown there different unit of treatment plant like Inlet Chamber, Fine Screen, Grit Removal, Parshall Flume UASB (Up Flow Anaerobic Sludge Bed Reactor), MBBR (Moving Bed Bio Film Reactor), Chlorination Unit, Sludge Digester, Gas Collection Unit, Caustic Scrubber etc.

We were shown the UASB and understand the process of generation of biogas and the degradation of sewage water. Also, we were shown MBBR which is second unit to treat the sewage treatment and it is also important unit to generate biogas follows by gas digester.

This STP having a capacity of 84 MLD but it is not sufficient for the area so it will be expanded up to 134 MLD and 50 MLD STP will be connected with existing unit having technology of SBR (Sequential Batched Reactor).

The sludge which was generated from STP acts as manure. Also, the biogas runs the electricity generator and generates electricity for the unit.

The visit proved to be fruitful for the student and satisfied its objective of demonstrating live concept of Fluid flow operation, Mechanical operation, Environment Management etc.

Glimpses of visit:



ACKNOWLEDGEMENT

We would like to thank Dr. Vaishali Mungurwadi (Principal, SCET) and the management of SCET for permitting us for industrial visit at Sewage Treatment Plant.

We would also like to acknowledge SMC, Ms. Neha Sharan and Mr. Nehal Mistry for allowing a visit in STP and personally giving his valuable inputs to the students.