



An Industrial visit to SMC Anjana farm was organized by Chemical Engineering Department on 24<sup>th</sup> July, 2015 for III Year students. Two faculties from the department accompanied the student's viz. Prof. Vaishali Umrigar and Prof. Anshul Sharma. **Enthusiasm** and a **hunger to learn** something new were clearly seen on the faces of young and budding Chemical Engineers.

SMC plant – Anjana farms is a sewage treatment plant with a capacity of 82.50 MLD and treats the water till secondary stage. Students were well aware of process flow sheet of a sewage treatment plant with the functions of various operations in it but actual visualization of any wastewater treatment plant was made possible by this industrial visit.



Firstly we were briefed regarding the ongoing functions at Anjana STP along with some statistical datas of various other STP's under SMC.

Then in actual field visit we were shown sections of Anjana STP i.e. Wastewater treatment section and Biogas production section.

In wastewater treatment section we were shown primary treatment techniques like screening, grit removal, Parshall flume, clarifiers and secondary treatment techniques like aerobic digester.

A point requires a special mention here that the complete plant is automatized by SCADA (Supervisory Control and Data Acquisition) means the entire work is online and every equipment, gates, aerators, blower, pumps etc. can be controlled from one place.



The generation of electricity is also done at Anjana STP means the plant need not import electricity from outside agencies rather it supplies excess electricity to them.

Sludge which is formed from Bio-gas section is utilized as an important fertilizer.

**“SMC plants are service departments but not profit making organization.”**

**ACKNOWLEDGEMENT**

The acknowledgement would remain incomplete without the mention of SMC officials Mr. Ketan Mehta and Mrs. Patel who were responsible to make this visit successful by sharing their wealth of experience and knowledge with our students.

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