



CHEMICAL ENGINEERING DEPARTMENT

PLANT VISIT TO

KATARGAM WATER PLANT, SMC



An Industrial visit to SMC Water Treatment Plant- Katargam was organized by Chemical Engineering Department on 4th February, 2017 for IInd Year students. Two faculties from the department accompanied the student's (59) viz. Prof. Parth Desai and Prof. Anand Upadhyay.

SMC Water treatment plant- Katargam is having capacity of 150 MLD and treats the raw water intake from river Tapi upto post chlorination stage followed by pumping to different distribution units. Students were well aware of process flow sheet of a water treatment plant with the functions of various operations in it but actual visualization of any water treatment plant was made possible by this industrial visit.

In water treatment section we were shown primary treatment techniques like Aeration, pre-chlorination, Alum dosing and mixing, Clari-Flocculation by LAMELA Clarifier, rapid sand bed filtration, Post chlorination etc.

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

SUMMARY

The visit was aimed to enhance the knowledge of the students, to understand the operations that are used in the **WATER TREATMENT PLANT OF SURAT MUNICIPAL CORPORATION** and to understand the different process implemented to treat the raw water coming from river Tapi. Students have experienced the actual operations which are being taught in the classroom. The aim of visit was fulfilled at the end of "*SMC water treatment plant*" visit.

ACKNOWLEDGEMENT

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

We would also like to acknowledge Nilesh Patel, Executive Asst, Hydraulic Department Head, and Water Works (SMC) for allowing a visit in industry and to Mr M. Kapadia for giving his valuable inputs to the students and his excellent support throughout the visit.

Some of the glimpse of the visit:

