



Date: 23-07-2016

A visit to Nyari Water Filter Plant

- **Aim:**

Visit to Nyari Water Treatment Plant at Rajkot, was to enhance the theoretical knowledge obtained in the college by observing the different procedures of the treatment plant.

- **Content:**

- On reaching plant, the Plant Manager, Mr. A. B. Jadeja gave a warm welcome and gave introduction on the need of water treatment process.
- He explained the working of the plant and the various steps involved in getting the purified water. He also instructed about the precautions to be taken by the students during the plant tour.
- Water contain bacteria and other microbiological organisms that causes sickness and other diseases.
- Water treatment typically clean water by taking it through following process:
 - Aeration
 - Coagulation
 - Sedimentation
 - Filtration
 - Disinfection
- For coagulation they are using PCM and chlorine gas. The optimum dosage of chlorine gas is added to filter water.
- In sedimentation solid particles will settle down.
- And by washout on sand bed this solid particles get removed and sludge is collected.
- Nyari Water Treatment Plan has a capacity of filtering water is of 3,00,00,000 liters.

- **Outcome:**

- This visit was to enhance the knowledge of Engineering Chemistry, Water treatment, and Water quality testing among the students and help them understand the process of converting raw water into drinking water.
- The visit was an informative experience satisfying the curiosity of engineering students and also helped in creating an environmental awareness among them.
- It was an enlivening experience in which the students got a chance to get themselves familiar to the practical knowledge of the different stages of water purification.



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“Clariflocculator view of purified water”



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