



# POORNIMA

## COLLEGE OF ENGINEERING

### **Brief Report: Visit to Sewage Treatment Plant on the occasion of World Water Day, March 22, 2017**

**Focus Area:** The purpose of the visit was to acquaint the students with the process of municipal waste water treatment.

#### **Effectiveness of Education and extent of participation:**

Poornima College of Engineering, organized a visit to Sewage Treatment Plant Delawas, Prtapnagar, Jaipur on March 22, 2017, World Water Day, for a group of 56 students from I Year by prior permission from Jaipur Nagar Nigam. Students were accompanied by the faculty members Dr. Bina Rani & Dr. Susmita Sharma both are working as Associate Professor in the department of Chemistry & Environmental Engg. STP Delawas has treatment capacity of 125 MLD and was established with an objective to follow the wastewater disposal standard set by RPCB/CPCB.

The visits include presentations by project engineers, which explain all the details and benefits of project. They were then accompanied on a tour of the site, where they were given a detailed explanation of the project. They observed the work achieved so far on the ground. A step-by-step guide describing what happens at each stage of the treatment process and how pollutants are removed to help keep our waterways clean.

On all sites the students saw first-hand how the waste sludges are collected, processed and disposed of. These processes included pasteurisation, anaerobic digestion, thickening, blending and dewatering. Through the visit, students got an in depth knowledge of the various components of the treatment plant based on Activated Sludge Process. They also become familiar with the working principle and functions of various units of treatment plant such as screens, grit chamber, primary clarifier, aeration tank, secondary clarifier, sludge digester, etc. The visit was quite helpful for the students to get the practical knowledge regarding the functioning and process of municipal waste water treatment plant

