

“A visit to Asia’s Largest Pumping station- Dhanki”

The visit was planned by Head of the Department Prof. Vimal Patel and coordinated by Prof. Krunali Savalia purpose to nurture student with the water resources management:

AIM:

- To cultivate the idea of water distribution & management
- To highlight amongst them the current working platform in water distribution & management.
- To be able to develop the innovative idea in solving water crisis.

The visit to Dhanki Pumping station was headed by Prof. Jay Kapadiya & Ms. Natasha Sagar on 20th April 2016. The visit was commenced by Mr. Aggarwal manager of **GWIL (Gujarat Water Infrastructure Ltd)** managed in collaboration with **SSNL (Sardar Sarovar Nigam Limited)**. The manager at the site first introduces the concept of diverting the excess flood source of Narmada river water & its better applicability through constructing divergent structure.

The water from Dhanki which is lowest RL point is distributed to **Kutch, Morbi, Rajkot** & most other regions of Gujarat helps to meet with all residential, institutional, commercial, recreational as well as industrial demands of cities based on Population Projection. It also supplies water for irrigation purpose to farms for which metering to avoid water thefts from canal are installed at every 60km.

The entire station is divided in 3 zones **NC-26, NC-32 & NC-30** of which NC-32 supplies water to Rajkot. The plant had capacity of pumping 545MLD water everyday & project cost is approx. 5 crore.

OUTCOME:

- The student develops idea of divergence structure of canal.
- The student will be able to co-relate theory studied by them to implemented at an arena
- The student will be updated to their scope of working under such unit.
- The student will be able to develop expertise about various disciplines of hydraulic structure, water resources as well as sustainability of project.

- Quick look of visit are as below:



“ SSNL ARENA CONCRETE
VOLUTE PUMPS”

“Panorama of Dam Site”-



“Glances of Planning of world’s largest pumping station”



“Presenting the token of love with gratitude”



“Horizontal Pump system”



“Centrifugal Pump system”



“Enlighten student’s to monitoring svstem”