



A
REPORT ON INDUSTRIAL VISIT ON UKAI HYDRO POWER PLANT

With an aim to go beyond academics, Mechanical Engineering Department of SCET had organized an industrial visit to Ukai Hydro Power Plant, Tapi District, Ukai; on 4th March 2017. Total 132 students from 2nd Year, Electrical engineering department (Shift I & II), 5 faculties from Mechanical Engineering Department and 3 faculties from Electrical Engineering Department, visited the Ukai Hydro Power Plant.

The purpose of this Industrial visit was to provide an excellent opportunity to all the students & faculties, to interact and know more about industrial environment. The intention was to help the students to create a practical perspective on the World of Engineering.

The Ukai Dam, located 94 km from Surat, is constructed in 1972 across the Tapi River. Having a catchment area of about 62,255 km² and a water spread of about 52,000 hectares, it is the largest reservoir in Gujarat. The storage capacity of Ukai dam is almost 46% of the total capacity of all the other existing dams in Gujarat if put together. The dam is an earth-cum-masonry dam. Its embankment wall is 4,927 m long. Its earth dam is 80.77 meter high, whereas the masonry dam is 68.68 meter high. The dam's left bank canal feeds water to an area of 1,522 km² and its right canal provides water to 2,275 km² of land.

The Ukai Hydro Power Station is located at Ukai Dam on Tapi River in Tapi District. There are four units of hydro turbine each of 75 MW with a total installed capacity of 300 MW. All the above units are of BHEL make. Commissioning dates of unit no. 1 to 4 are 08.07.1974, 13.12.1974, 22.04.1975 and 04.03.1976 respectively.

The Ukai Left Bank Canal (LBC) Hydro Power Station is located at Left Bank Cannel of Ukai Dam on Tapi River in Tapi District. There are two units of hydro turbine each of 2.5 MW with a total installed capacity of 5 MW. All the above units are of BHEL make. Commissioning dates of unit no. 1 and 2 are 08.12.1987 and 19.02.1988 respectively.

Both the Hydro power plants as well as Ukai Thermal Power Plant, are operated and handled by Gujarat State Electricity Corporation Limited (GSECL).

Glimpse of the visit:



Photograph 1: A token of gratitude to Mr. R.N Patel (I/c Superintending Engineer, Hydro) by Dr. Nitin Vibhakar



Photograph 2: Group Photo of Electrical Engineering Department Students (Shift I)



Photograph 3: Group Photo of Electrical Engineering Department Students (Shift II)



Photograph 4: Group Photo of Faculties