

A Report on Industrial Visit at

UKAI HYDRO POWERPLANT

Organized by

Training and Placement Cell

Department of Mechanical & Automobile Engineering

for

**B-Tech Mechanical /Automobile engineering
(3rd Semester)**

Date of the Visit:

20th September, 2016

Faculty Coordinators

Prof. Urvin Patel

Prof. Sandip Parmar

Dr. Chinmay Desai

HOD – Mech/Auto Dept.

Dr. N. C. Shah

Director– CGPIT



Chhotubhai Gopalbhai Patel Institute of Technology

Uka Tarsadia University, Bardoli.

Schedule of Visit:

Time		Location
To	From	
8:30 a.m.	-	Surat and CGPIT (Bardoli)
9:15 a.m.	-	Left from Songadh
10:30 a.m.	-	Reached at ukai hydropowerplant (ukai)
11:00 a.m.	02:00 p.m.	Visit of Different Units of ukai hydro powerplant
02:00 p.m.	2:45 p.m.	Lunch at ukai hydro powerplant
3:00 p.m.	-	Left from ukai hydro powerplant.
5:00 p.m.		Surat and CGPIT (Bardoli)

Total No of Visitors = 210 (201 Students + 09 Faculties)

List of Faculties:

- Mr. Jignesh Gadhiya
- Mr. Viren Bagadhiya
- Mr. Kapil Gohil
- Mr. Umang Patel
- Mr. Sandip Patel
- Mr. Urvin Patel
- Mr. Chirag Patel

About Ukai Hydro Powerplant:

Ukai Hydro Powerplant. Ltd. established on 1972 under the name of our honourable PM Morarji Desai. They are capable to supply overall surat district the power of electricity. Its Construction began in the year 1964. Its construction cost was Rs.1389.6 Million. Its height is 80.772 meters and length is 4,927 meters. It has 22 spillways and that too radial. The spillway capacity is of 46,269 m³/s. It creates the reservoir of vallabhsagar which has the total capacity of 7,414 MCM. A very big catchment area of 62,225 square kilometers with the active capacity of 6,730 MCM. An hydraulic head of 57 meters and has installed capacity of 300 MW dividing the generation with 4 turbines each of 75 MW. 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's left bank canal feeds water to an area of 1,522 km square and its right canal provides water to 2,275 km square of land.

Mr. Jignesh Gadhiya was guided for understanding of various technologies like hydro power plant, Generators, Turbine and other machinery established by themselves.

RESERVOIR:

Reservoir is a very useful and important prospects for the power plant.

- Usually much deep and is used in the time of scarcity.
- It's has a depth of max 340.5 ft.



Water flowing through Gates'



Group Photo

Special thanks to the staff members of ukai dam for let us persuading the great knowledge.
