

# **SMT. SHANTABEN HARIBHAI GAJERA** **ENGINEERING COLLEGE**

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## **A REPORT**

### **ON**

## ***TECHNICAL VISIT TO SARDAR SAROVAR DAM SITE***



Prepared By :

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Smt. Shantaben Haribhai Gajera Engineering College organized a technical visit on 21<sup>st</sup> July, 2017 in which seventy one students and four faculty members (Asst. Prof H. H. Suchak, Asst. Prof C. R. Zala, Asst. Prof M. G. Viradiya and Asst. Prof V. K. Kachhadiya) visited the Sardar Sarovar Dam Site, Kevadia colony. Sardar Sarovar Project is considered as a lifeline of Gujarat state. The technical visit was planned to understand the multipurpose river valley project, its components and important features and current status of ongoing activities on the site. The journey to the project site started early in the morning around 8 am by a private bus. Students visited the dam site view points, River Bed Power House (RBPH), Canal Head Power house (CHPH) and the HR of main canal. The viewpoints gave an exposure to the non-overflow and overflow section of the concrete dam, 1210 m in length, and with a maximum height of 163 meters above the deepest foundation level. They got an opportunity to understand the dimensions and functions of various components of the dam namely spillway, controls/gates on the crest of spillway and the energy dissipation structures from downstream side. The river morphology on downstream side of the storage dam gave a wonderful idea of site during the pre-monsoon period.



*Picture of Sardar Sarovar Dam*

After security check, students and faculty members visited the RBPH which is located about 165 meters downstream of the dam. It has six number of Francis type reversible turbine generators each of 200 MW installed capacity. The CHPH is a surface power station in a saddle dam on the right bank of the reservoir having installed capacity of 250 MW (5 x 50 MW). All the five turbines have been commissioned. The students got to understand the technical details of RBPH and CHPH and its functioning.



*Picture of Narmada main canal*

The Narmada main canal is a contour canal and is the biggest line canal with a length of 458.318 km reaching the Gujarat -Rajasthan border. The site visit gave an exposure as to how water is brought to the main canal from the main reservoir through the ponds and link canals. The canal distribution network and the on-going irrigation works and rotational water supply system that is likely to be introduced for water management were also discussed and deliberated during the visit. The field visit gave a good exposure to engineering students on the multipurpose river valley water resources project of Gujarat state. This technical visit will go a long way in improving the learning outcomes of the burgeoning engineering graduates of SHGEC.



## PHOTO SLIDES



*Picture of students setting near canal*



*Picture of power grid*



*Picture of students and faculty at the coast of dam*