

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

POLAVARAM PROJECT VISIT – STUDENTS AND FACULTY

The B. Tech 3rd year civil engineering students, along with the faculty members Dr. Janaki Ramaiah (Geotechnical Engineering) and Dr. Prasanna Sampth (Water Resources Engineering), visited the Polavaram Project site on 2nd December 2017.

The visit to this project site had provided a great learning experience for the students and faculty beyond the classroom and textbook. Various geotechnical challenges posed by the subsoil conditions and the methodologies/techniques adopted by the Engineers to tackle those challenges using the state-of-the-art heavy equipment were visited.

The students had a chance to visit the following facilities under construction at the project site:

- A large model of the project showing the bird's eye view of different facilities such as spillway, Earth-cum-rockfill dam, earth dams, power-house, diversion canals etc.
- Spillway.
- Principles, methodology, equipment and installation of the cut-off-wall made of plastic concrete for the Earth-cum-rockfill dam.
- Principles, methodology, equipment and densification of the sand using the vibro-compaction technique for the Earth-cum-rockfill dam.
- Cone penetration with measurement of pore pressure (CPTU) at the site.
- Installation of jet grouting for the Downstream Coffer Dam.