

## VISIT REPORT

**Title of the Program:** Site Visit report on Darna Dam for BE civil Students for DHS Subject.

**Number of Day(s):** 01 Days

**Dates(s) of Conduction:** 4<sup>th</sup> May 2021

**Venue: Practical** Darna Dam, is a gravity dam built across Darna River near Igatpuri, Nashik

**Number of Participants:** 62

**Male:** 43

**Female:** 19

### **Program Objectives:**

1. To understand the significance of surveying in dam construction and maintenance.
2. To explore various dam and instrumentation kinds.
3. General information on components of gravity dam.
4. To examine a dam's stability analysis and failures.
5. To research the use of spillways and different kinds of spillways.

### **Name & Contact Details of the Resource Person(s):**

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### **Description:**

For all Final Year students, the Civil Engineering Students Association with the Department of Civil Engineering organized a visit to the Darna Dam, a gravity dam on the Darna River close to Igatpuri, Nashik. During the course, we discussed the significance of dams, different types of dams, gravity dam components, conditions that favor gravity dams, forces acting on gravity dams, and dam safety equipment. The reservoir engineer provided all instructions and vital information regarding the dam and its several parts, such as the spillway, gallery, etc.

### **The outcome of the Visit:**

1. Recognize how different types of dams and instruments operate.
2. To understand the gravity dam's stability analysis.
3. Recognize the various kinds of spillways and their designs.
4. Create canal designs and comprehend canal architecture
5. Evaluation of the Cross Drainage and Diversion Headworks

### **Site Visit Report on darna Dam:**

The Darna Dam is a gravity-built dam on the Darna River in the Indian state of Maharashtra's Aswali Village, close to Igatpuri. On the Darna River in the Godavari Basin, the Darna Masonry Dam was built in 1916, and enhancements were made in 1975. The catchment area of the Darna Dam is 404 square kilometers (156 square miles).

It serves as a source of drinking water for the surrounding town of Sinnar, Nashik, as well as for agriculture.

- 1) Height: 28 m (92 ft)
- 2) Length: 1,634 m (5,361 ft)
- 3) Location: Igatpuri, Nashik
- 4) Total capacity: 0.209820 km<sup>3</sup> (0.050338 cu mi)
- 5) Owner: Government of Maharashtra
- 6) Surface area: 34.750 km<sup>2</sup> (13.417 sq mi)

### **Photographs of the Site Visit:**



*Figure 1: Darna Dam, is a gravity dam on Darna River in the Aswali Village near Igatpuri, Nashik*



*Figure 2: A group photo of some students during visit*