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## **Department of Civil Engineering**

Date: 8<sup>th</sup> April 2019

### **Visit Report on “Bhandardara Dam”**

The department of Civil Engineering of VPM's Maharshi Parshuram College of Engineering organized industrial visit to **Bhandardara Dam** for B.E Civil students as it was mandatory to fulfill the curriculum requirement of Mumbai University.

The journey commenced on 8<sup>th</sup> April 2019 with 36 students. We had a stay at Yash Resort to proceed with our visit the following day. Mr. Mandar Pawari and Ms. Priyanka Kakade accompanied and guided the students throughout the visit. The visit was sorted out with the earlier consent through Mr. Shekhar Sawant, HOD of Civil Engineering Department.

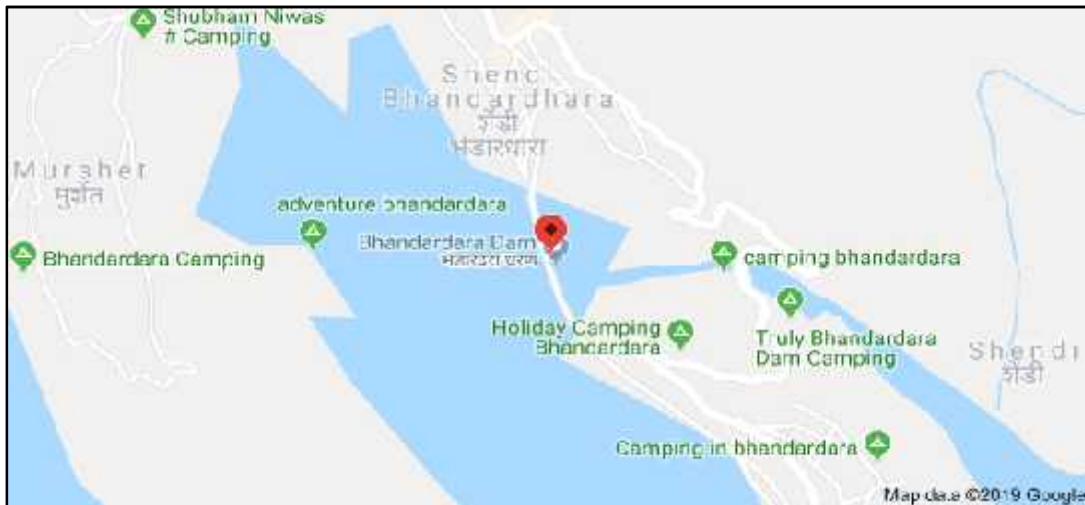
The first location we visited is the Sandhan Valley on 9<sup>th</sup> April at 6:30 am since we had to trek for some distance. The top view of the valley was magnificent. Our final destination was the Bhandardara Dam on 9<sup>th</sup> April noon.

Bhandardara Dam also known as Wilson Dam in Akole Taluk has been built during British rule in India in the year 1910. It has its existence on Pravara river and is situated 150 meters above ground level. This dam is located on the western coast of India which lies in Ahmednagar district of Maharashtra. The foothills of the dam has been metamorphosed into a lush green garden which is home to gigantic trees famous for their harmless bats and streams running through it. This place is much renowned for its scenic greenery and the majestic architecture of the dam.

#### **DAM INFORMATION**

- Type of dam : Gravity and Masonary
- Impounds : Pravara River
- Creates : Arthur Lake
- Construction Start : 1910
- Opening Date : 1926
- Catchment Area : 122 Km<sup>2</sup>
- Height : 150 meters

- Length : 2,717 meters
- Length of Crest : 507 meters
- Irrigated Area : 57,000 hectares
- Lat/ Long : 19.547805, 73.757127
- Seismic Zone : Zone III
- Total Storage Capacity : 307,310,000 m<sup>3</sup>
- Reservoir Area : 743.18 \*10<sup>3</sup> m<sup>2</sup>
- Purpose : Irrigation and Electric Power Generation
- Electrical Product Information : 1 Turbine
- Maximum Productivity : 10 MW
- Type of Spillway : Ogee



Location of the dam



Bhadardhara dam



Students at bhadardhara dam

Sandhan Valley, “The Great Canyon” in the Sahyadri ranges is combination of a canyon and a valley. It is located in the Ahmednagar district, Maharashtra, near the famous fort Ratnagad. Sandhan Valley is a gorge cut by wild water streams gushing down ferociously from nearby mountains during the monsoons for thousands of years. It is also known as The Valley of Shadows.



Sandhan Valley



Students at Sandhan Valley

During the visit students gained knowledge regarding concreting of dam , mass concreting, underwater concreting, complex construction of dam, spillway, water levels in dam etc.

This activity was coordinated by Mr. Mandar Pawari and Supported by Mr.Shekhar Sawant Head of department.

**HOD**

**Prof Mr. Shekhar G Sawant**