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Department of Civil Engineering

Report on Field Visit to Hedavi, Pimper Dam

Date: 09/11/2019

Name of Topic : Engineering Geology Visit to Hedvi and Pimper Dam
Date of Visit : 7th November 2019
Time : 2:30 pm
Number of students attending : 26
Guide : Ms. Priyanka Kakade supported by Ms. Gauri Kadam and
Mr. Mandar Pawari
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Department of civil engineering organized one day geology field visit on 7th November 2019, to Hedvi and Pimper dam. Engineering Geology is one of the important subjects to acquire basic knowledge about the Earth, its structure and its landforms. Under this subject SE civil students visited Hedvi and Pimper dam. According to Mumbai University syllabus there shall be a visit to get geological information according to various contents mention in syllabus. For fulfilling this requirement and to understand the concepts better this visit was organized.

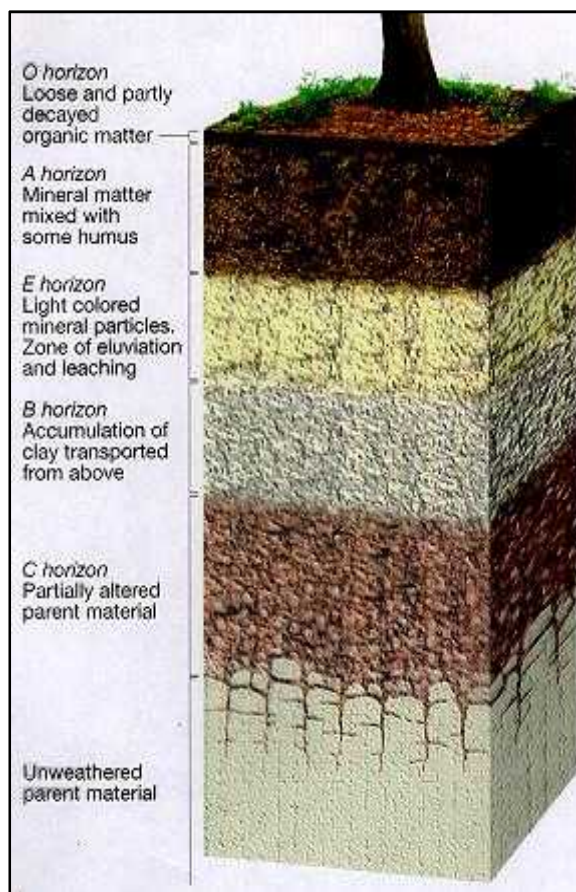
Outcome:

During the visit students studied soil profile, identification of rocks with their properties, structure and the components and purpose of Earthen Dam at Pimper.

Soil Profile:

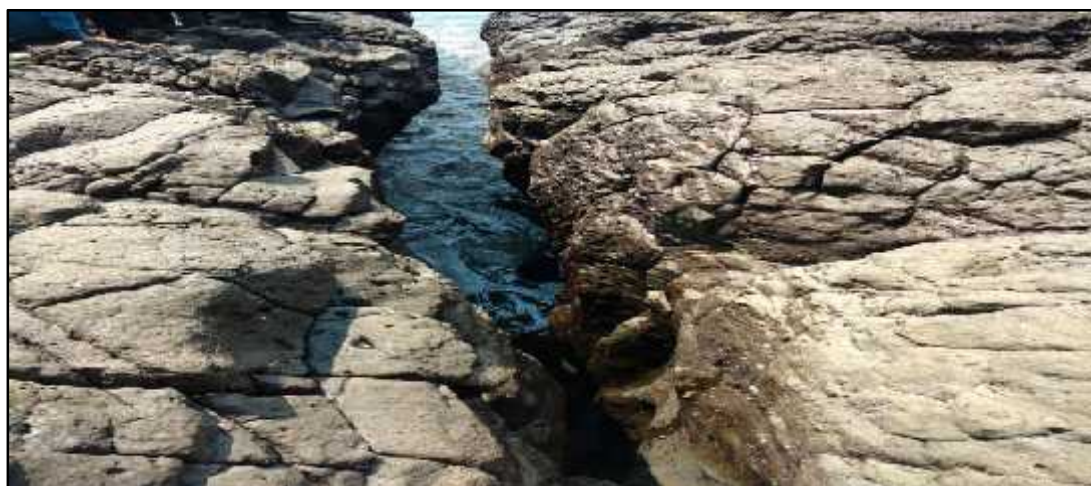
The soil profile is an important tool in nutrient management. By examining a soil profile, we can gain valuable insight into soil fertility. As the soil weathers and/or organic matter decomposes, the profile of the soil changes. For instance, a highly weathered, infertile soil usually contains a light-colored layer in the subsurface soil from which nutrients have leached away. On the other hand, a highly fertile soil often has a deep surface layer that contains high

amounts of organic matter. With clues provided by soil profile, we can begin to predict how a soil will perform under certain nutrient management conditions.



Horizons of soil

After observing the soil profile as we were heading towards Bamanghal, we observed jointed compact basalt rock on the bank. The structure of the rock is ropy structure and formed by pahoe lava. Round shaped basalt are formed by weathering. At this place rocks are cut by seawater which led to the formation of Gorge. At the time of high tide water gushes through the gorge and water column rises to height of up to 100 ft in air.



Gorge



Students visit to Bamanghal



Pimper Dam

The Pimper is situated on local nallah. The construction of the dam was completed in 1985. The Water Resource Department and Government of Maharashtra look after the operation and maintenance of the dam.

Features of the dam are as follows:

Type: Earthen Dam

Length of the dam: 285 m

Capacity: 44 TCM

Length of Spillway : 25m

Capacity: 48.46 cumec

Purpose : Irrigation.



Visit to Pimper Dam

H.O.D.

Prof. Shekhar G. Sawant