

Module 8 : Foundations in difficult ground

Lecture 33 : Introdcution [Section 33.1: Introduction]

Objectives

In this section you will learn the following

- Introduction

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Introduction

The difficult ground refers to those site conditions where it is not suitable to built a foundation on the soil present in the site. The various difficult grounds are weak sand, soft clay, etc. Also the expansive clays, which has swelling and shrinkage properties, are not suitable for erecting structures. Apart from these the collapsible soils are present which are not very common in India . The usual practice to stabilize the soil present in such sites aims at improving the engineering properties of the soil various soil stabilization methods are used in practice and some structure are also constructed to safeguard against the poor soil conditions. The soil stabilization is used to reduce the permeability and compressibility of the soil mass in the earth structures and to increase the shear strength.

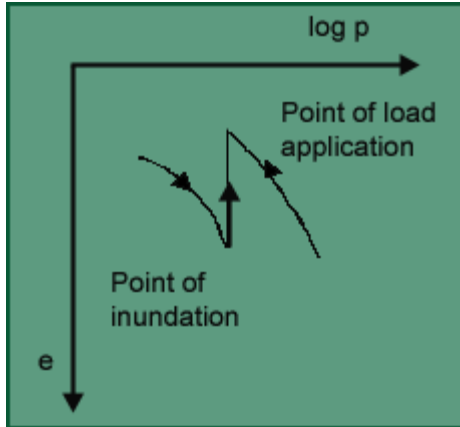


Fig.8.1 e- log p curve for expansive soils

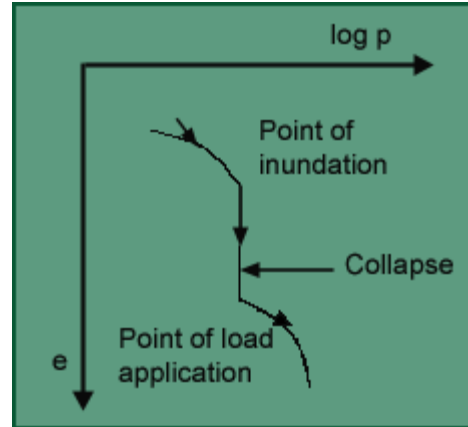


Fig. 8. 2 e- log p curve for collapsible soils

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Recap

In this section you have learnt the following.

- Introduction