

ABSTRACT

The word “soil” is derived from the Latin word sodium which is according to Webster’s dictionary. The term soil in “soil engineering” is defined as the unconsolidated material, composed of solid particles, produced by disintegration of rocks. The void space between the particles between the may contain air, water or both. Soil is a significant part of the construction process. If performed improperly, the settlement of the soil could occur and results in unnecessary maintenance costs or structure failure. For the current project we are carrying the several experiments such as CBR, Atterberg limits, and specific gravity of soil by pycnometer, Proctor test. An attempt has been made to improve the soil strength by using lime.

Based on the investigation carried out in this study, the following conclusions can be drawn: From the results of the present study, it is concluded that, the soil stabilization using lime is a very effective process for the strengthen of soil. Since, lime is a low-cost material it obtains high strength and makes the structure strong and durable. The test has been conducted red sandy soils. Red sandy soil is best results and it can be used to strength the building and roads. Due to stabilization the soil the bearing capacity of the soil gets increasing and any foundation can be construction in the soil.