

Effect of Mineral Additives on Improving the Geotechnical Properties of Soils in Chief

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Abstract : The reduction of available land resources and the increased cost associated with the use of high quality materials have led to the need for local soils to be used in geotechnical construction, however; poor engineering properties of these soils pose difficulties for construction project and need to be stabilized to improve their properties in other works unsuitable soils with low bearing capacity , high plasticity coupled with high instability are frequently encountered hence, there is a need to improve the physical and mechanical characteristics of these soils to make them more suitable for construction this can be done by using different mechanical and chemical methods clayey soil stabilization has been practiced for sometime but mixing additives, such as cement, lime and fly ash to the soil to increase its strength.

Keywords : clay, soil stabilization, natural pozzolana, atterberg limits, compaction, compressive strength shear strength, curing

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