

ABSTRACT

Construction of sub grade is problematic in clayey soil. In recent times, due to increase in demand for sub grade has increased due to increase in construction activities in the road sector. In this situation, to overcome this problem is to utilize different alternative to generate waste material which cause not only environmental hazard and also disposition problem. Currently the technical methods are used to strengthening the red soil with admixtures, it is the type of the soil that develops in warm, temperature, moist climate under deciduous or mixed forest. In this project, it is performed to use rice husk ash and lime as binding object with soil for increasing the strength.

The present investigation is carried out with agricultural waste which was mixed with soil to study the weak sub grade soil by compacting and strength characterization. Rice husk ash (RHA) is not self-cementitious; a hydraulic binder such a lime must be added to form cements to improve the soil strength. Currently in this project, it has been considered 10% lime and rice husk ash of 5%, 10%,15%. by California bearing test we can estimate the strength of the soil.

Keywords: Rice Husk Ash, Lime, Red Soil, California bearing ratio test