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A Project Report to KSCST
on

"Effect of saw dust ash and fly ash on stability of expansive soil"

Project Proposal Reference No: 38S0231

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ABSTRACT

Some soil exhibit generally undesirable Engineering properties. They tend to have low shear strengths and to lose shear strength further upon wetting or other physical disturbances. They can be plastic and compressible and they expand when wetted and shrink when dried. Some types expand and shrink greatly upon wetting and drying – a very undesirable feature.

This study is carried out with an intention to evaluate the effects of saw dust ash and fly ash on the geotechnical properties of the expansive soil. Tests which are to be carried out on the sample of soil dealt with consistency limits, specific gravity, compaction, California bearing ratio, unconfined compressive strength and Compaction Test. These tests are to be conducted at both non-stabilized and stabilized states by adding 5%, 10%, and 15% of saw dust ash and fly ash. The results show the effect of saw dust ash and fly ash on geotechnical properties of the soil samples strength. And the Soil sample with 10% fly ash 10% saw dust ash has given better Engineering Properties.