

Expansive Soil Stabilization Using Marble Dust and Bagasse Ash

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Abstract: This research is an attempt to investigate the effect of marble dust and bagasse ash on the stabilization of expansive soils. Expansive soils are always characterized by their high expansion, high moisture content, high compressibility, high shrinkage on drying along with wide polygonal cracks and sufficient swelling on wetting. Expansive soils (problematic soils) are present in different parts of the world and extensively found in many locations particularly in Pakistan. In KPK province we select five different sites and collect soil sample and determine their index properties. While selecting sites we visually inspect the soil and collect soil sample from areas having wide cracks in soil in dry condition. From the index properties of all the soil samples, district Bannu soil were classified as expansive soil having liquid limit greater than 50% and plasticity index greater than 30%. Currently different techniques are in use for improvements of expansive soil but most of them are uneconomical. For expansive soil improvement we use marble dust and bagasse ash which are already burden on our natural environment. Utilizing these wastes for the improvement of expansive soil will be the best alternative. Different lab tests on expansive soil without the addition of these waste and with the addition of these waste were performed and their effect on swelling and other properties were determined. Finally, marble dust and bagasse ash can be utilized to treat and stabilize the expansive soil as economical alternative to Portland cement and other (expansive) chemical stabilizers. The use of bagasse ash and marble dust for stabilization applications is an economical and environmental solution of the problems associated with its disposal process.

Keywords: Expansive soil, Expansive index, Swell pressure, Bagasse ash, marble dust.

1. Introduction

Expansive soils are those that experience significant volume changes associated with changes in water contents. It expands when water is added and shrinks when they dry out. An expansive soil expands due to the presence of highly reactive clay minerals such as montmorillonite and smectite. This continuous change in soil volume can cause light structure built on this soil to move unevenly and crack. This damage is more than twice the damage from floods, hurricanes, tornadoes, and earthquakes combined (Jones and Holtz, 1973). Problems of expansive soils has appeared as cracking and break-up of pavements, roadways, building foundations, slab-on-grade members, channel linings, irrigation systems, water pipelines, sewer lines and gas pipeline. Soil sample were collected from five different districts including district Swat, Bannu, Mardan and Peshawar (Site 1 & 2) and their index properties were determined. From the index properties of the entire soil sample district Bannu soil were considered as expansive soil having liquid limit greater than 50% and plasticity index greater than 30%. Generally main properties of expansive soil are swelling properties which affect both the long and short term stability of the structure foundation built on this soil. Therefore it is necessary to improve the soil properties to avoid damages to the structure. Bagasse ash and marble dust are used to improve the properties of expansive soil which are available in large amount and are produced in huge amount by the sugar cane and marble industry. Bagasse ash is high in silica, calcium, and other minerals. Bagasse ash and marble dust are added in 0%, 4%, 8% and 12% separately and the results were compared.

2. Materials and Methods

In this study marble dust are used which are taken from marble industry (Haji Khan marble industry) located near Rawalakot interchange motorway. Similarly bagasse ash is collected from the sugar mills Mardan. Expansive soil are collected from kosha village, tehsil domail, district Bannu.



Figure 1: Satellite image of kosha village, tehsil domail, district Bannu

3. Selection of Sites

While selecting sites for collecting expansive soil sample we visually inspect the ground surface. Expansive soils can be easily recognized in the dry season by the deep cracks (a yardstick can be easily inserted), soil is rock hard when dry,

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