

STUDY ON LATERITE-CEMENT BRICKS

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PROJECT REPORT

Submitted by

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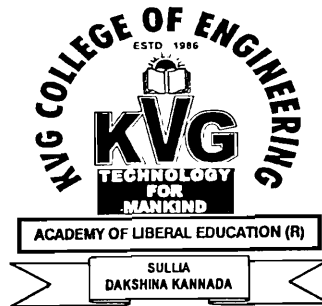
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ABSTRACT

Soil is considered by the engineer as a complex material produced by mechanical and chemical weathering of solid rock. The formation of soil is a result of geologic cycle continuously taking place on the face of the earth. Laterite blocks are well known in Asian countries as a building material for more than 1000 years. It is cut in form of large blocks and then excavated from the soil. Laterite is a surface formation rich in iron and aluminium, formed in hot and wet tropical areas.

In many countries the need for locally manufacturing building material can hardly be met, because there is an imbalance between the demand for construction coupled with the depletion of traditional building materials. With construction cost going up new local cost materials are to be investigated without compromising in strength due to the increase in the price of materials. One way out is to find building materials that cost less but are strong at the same time. To address this situation, attention has been focused on low-cost alternative building material

In this project an attempt is made to utilize the laterite wastes available abundantly near the laterite quarry for the manufacture of laterite soil bricks using cement as a stabilizing agent. This can be used as an alternative to the usual laterite stone. The laterite soil was procured from the laterite quarry near sullia. The study was intended to obtain a optimum soil-cement mix to manufacture bricks at a low cost which can fulfill the all requirement of building block.