

Project Report
on
STABILIZED MUD BLOCKS AS AN ALTERNATIVE
BUILDING MATERIAL

Ref: Our project sanctioned letter No. 7.1.03/SPP/1018 dated 12th March 2015 and / or No. 7.1.03/SPP/1018 dated 27th March 2015



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Keywords: Mud block, sugarcane bagasse, cement, compressive strength, linear shrinkage, water absorption

ABSTRACT

The project deals with the study on the stabilized mud blocks as an alternative building material.

The materials used were soil and quarry dust in the ratio 1:1 and the stabilizers used were cement and sugarcane bagasse. The characteristics of these materials are first determined. The materials and stabilizers were taken in different proportions and were casted and cured. The curing of the mud blocks were done in 2 methods – oven drying method and gunny bag method.

The respective blocks were tested for 7 day dry compressive strength, 7 day wet compressive strength and 28 day wet compressive strength.

The oven dried samples were tested for water absorption and linear shrinkage.

Comparative study was done between compressive strength, linear shrinkage and water absorption with respect to the varying percentage of cement content, varying percentage of sugarcane bagasse and the method of curing.