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Group No: 1

Guided By

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Project Title

**UTILIZATION OF WASTE PLASTIC IN MANUFACTURING OF
PLASTIC-SAND BRICK**

Abstract:

The use of plastic is increasing rapidly and it results the generation of waste plastic. It is noted that the rate of usage of plastic has become double within 10 years. In other hand, the utilization of earth based clay material resulted in resource depletion and environmental degradation. As amount of clay required for brick is huge, in this project this waste plastic is effectively used in manufacturing of brick. The literature regarding the topic has been reviewed and it is seen that with increase of plastic in plastic sand brick, the strength of brick increases.

Our study is to get the best ways to avoid the accumulation of plastic waste. It also helps to conserve energy, reduce the overall cost of construction and hence in this project, attempts are made to manufacture the plastic sand bricks by utilizing the waste plastics. The compressive strength, water absorption, efflorescence, hardness and soundness will be compared for different proportion of plastic and sand and also compared with the regular brick.

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