

# Review Paper on Properties of On Properties of Clay Bricks

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## I. INTRODUCTION

Bricks are the artificial stones. These are used in building construction and for ornamental purposes. These are one of the basic materials used for wall construction. These are easily available, cheap and light weighted. They can be mould into required shape and size. The properly manufactured bricks are nearly as strong as stone.

*Uses of Bricks*

1. These bricks can be used as a building block to construct the buildings.
2. It can be used as a lining material for lining of wells, canals etc.
3. It can also be used as a flooring material.
4. It can also be used in Reinforced brick concrete.
5. It can also be used to construct the boundary walls.

## II. LITERATURE SURVEY

Sr. no.	AUTHORS	JOURNAL & YEAR	BRIEF FINDING
1	Ravindra Kumaret. al	IJERA 2017	Burnt clay brick is one of the major and widely used building units in construction around the world. The manufacturing of burnt clay bricks using waste materials can minimize the environmental overburden caused by waste deposition on open landfills and would also improve the brick performance at low production cost leading to more sustainable construction. These wastes utilization would not only be economical, but may also help to create a sustainable and pollution free environment. This study aims to evaluate the effect of the waste addition produced from two major crops: sugarcane and rice in clay bricks manufacturing.
2	Saif A. usmani	IJESC 2017	An attempt has been made to investigate the effect on mechanical properties of bricks when blended with various wastes. Puzzolonic material along with certain waste material blends will be studied, various mechanical properties and their variation with change in composition is involved in the scope of this study. Traditional brick-making would be the focus of research, the most suitable material will be suggested based on the finding.
3	Tanvir Hossain et al.	IJESC 2017	It has also been found that addition of RHA in brick does not affect its shape and size, therefore volume of brick remains unchanged. However, inclusion of RHA in brick increases its water absorption and decreases its crushing strengths. RHA also decreases specific gravity of bricks and increases impact values of brick aggregates.
4	Aja y kumar et al.	IJASGE 2016	Rice husk has been used directly or in the form of ash either as a value added material for manufacturing and synthesizing new materials or as a low cost substitute material for modifying the properties of existing products. Presence of silica is an additional advantage in comparison to other byproduct materials which makes RH an important material for a wide range of manufacturing and application oriented processes.

5	N.Vamsi Mohan et al.	IJATCE 2016	<p>1. By the addition of RHA upto 40% to clay, the strength gradually decreased and beyond the addition of 40% RHA the compressive strengths decreased rapidly.</p> <p>2. Optimum proportion for (RHA + Clay) bricks was observed as 30% RHA and 70% Clay (Maximum of 30% RHA) as the bricks exhibited high compressive strength and low brick weight.</p> <p>3. As the percentage of RHA increased, water</p>
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### III. PROBLEM IDENTIFICATION

- Natural resources are decreasing in all over the world and increasing wastes from industries generated simultaneously.
- It is eco-friendly due to use of industrial by product.
- Searching better substitutes for finding the quality improvement.

### IV. OBJECTIVES

- Investigation of the characteristics and engineering properties of the SCBA cement and lime samples collected.
- Establishment of best suited combination of SCBA, lime, cement and other constituents proportion for higher compressive strength brick.

### V. CONCLUSION

Increase the compressive strength of bricks with use of lime, cement and SCBA in manufacturing of bricks.

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