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# Reinforced brick

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**ABSTRACT:** The research aims at conducting a quality research with reinforced brick, with a better surface finish. The side of the brick was cast. Samples mixes are tested to achieve a finished surface. The brick were used to build masonry wall.

**KEYWORDS:** Reinforced brick, masonry wall, High strength.

## I. INTRODUCTION

One of the human beings need for living in the world is Shelter. The need for shelter meant for security arises after human evolution. The definition of stability and security as per shelter structural features was out of mind. So, we are made Reinforced brick. Reinforced brick are defined as artificial molded for metallic scrap, with crust sand, cement with uniform size and shape. In today world buildings are very fast developing and new material used in construction. So, I suggest the Reinforced brick is innovative idea for market.

### Objectives-

1. To learn various types of brick and manufacturing this brick.
2. To learn various methods of testing in those brick.
3. To learn which brick is suitable for construction or not.

## II. METHODOLOGY

### Process

- We collect crescent cement metallic scrap for market
- Then we mix dry content such as cement, metallic scrap, water, crust sand.
- Take the mold and fill the mold with our concrete.
- It takes 4 hours to dry
- After 4 hours we remove the brick from the mold.





#### Uses

- Reinforced brick is suitable for construction work
- Ex-: masonry wall parapit wall
- Construction of floors

#### Advantages

- It is durable fireproof
- Easy to constructs
- It can resist structure heavy compressive stress .
- It make structure safe in soli of unqual baring capacity

#### Literature review-

**1. Critical properties and stabilized earth brick (1995)**

Experimental study on critical properties and stabilized earth brick

**2. Hindawi publishing corporation (2016)**

Cement stabilized soli blocks admixed with sugarcane bagasses Ash.

**3. International journal of civil engineering (2012)**

Experimental investigation and feasibility study on stabilized compacted earth block using local resources

**4. Iowa University of civil engineering (1997)**

Elements strength tests of joint reinforcement in masonry

**5. International journal (2005)**

Evaluation of the plan seismic performance of stone masonry

### III. RESULT & CONCLUSION

- After completion of this project we we'll have the best optimized brick.
- The waste steel scrap is used in this brick the life of span of the building.
- Load carrying capacity is high

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