



Shri. Shamrao Patil (Yadravkar) Educational & Charitable Trust's  
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## **Study of plastic bricks made from plastic waste**

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### **ABSTRACT**

Plastic is everywhere in today's lifestyle. It is used for packaging, protecting, serving and even disposing of all kinds of consumer goods. But the problem with plastic is it is not easily degrade. So it is now a biggest problem in disposal of plastic. Also now a days the demand for the construction material is going on increasing. So to reduce the load on natural resources required for production of concrete which is primary construction composite of cement and aggregates.

So to reduce the load on mining of these natural resources the plastic can be use as binder in few construction materials. So plastic can be utilized in construction in bricks, paving blocks, in road construction, as an aggregates etc.

This project work is mainly focus on use of waste plastic to manufacture bricks, checking the waste plastic brick for various parameter, also the incorporating aggregates to gain more strength and comparison with regular burnt bricks. The experimentation found that waste plastic bricks have more strength than normal burnt bricks, and the waste plastic bricks with aggregates also have even more strength.

So the waste plastic bricks can be a good alternative for burnt bricks for the construction of compound wall, temporary structures, as a garden bricks etc. The product has huge scope in future. And will prove a good solution for increasing problem of plastic waste disposal.