

**“DEVELOPMENT AND STUDY OF
BEHAVIOUR OF WASTE GLASS
CONCRETE”**

PROJECT REPORT

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ABSTRACT

Glass from varying recycling processes is considered to be a material which could be used as binder and also as aggregate replacement. Glass which is most considered for recycling in terms of environmental protection is that forms containers, architectural and end of life vehicle glass and beer bottle glasses etc.

Waste glass creates serious environmental problems, mainly due to the inconsistency of waste glass streams with increasing environmental pressure to reduce solid waste and to recycle as much as possible. The concrete industry has adopted a number of methods to achieve this goal.

A parametric experimental study for producing concrete blocks using fine glass is presented. Some of the physical and mechanical properties of concrete having various levels of fine glass replacement with fine aggregates are investigated. The test results show that the replacement of fine aggregate by fine glass at a level of 40% by weight has a significant effect on the compressive strength of concrete.