

## ABSTRACT

The project has been taken as the “Experimental Investigation on Partial Replacement of Fine Aggregates With Charcoal of M30 Concrete”. The project deals with Designing of mix, Casting , And Testing and Analysis of the Experimental Concrete Structure.

The purpose of this project is to Study and Gain knowledge about the Experimental Concrete structure And to Find the Perfect Replacement of fine aggregates with the using Substances.

The Concrete Mix was designed as per **IS:456:2000** book of mix design of concretes. The Project is made as an Research Study for The replacement of the fine aggregates.

Concrete samples were tested for compressive, split tensile and flexural strength tests. The result showed that the compressive, split tensile and flexural strength increased with an increase in curing days .

The outputs of the numerical analysis, in terms of loading capacity of the were in good matching with the experimental results.