

## **EXPERIMENTAL STUDY ON RECYCLED COURSE AGGREGATE IN CONCRETE**

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There is a large amount of demolished waste generated every year in India and other developing countries. Since very small amount of this waste is recycled or reused. So, disposing this waste is a very serious problem because it requires a large amount of space. This study is a part of comprehensive program wherein experimental investigations have been carried out to evaluate the effect of partial replacement of coarse aggregate by demolished waste on compressive strength and workability of DAC (Demolished Aggregate Concrete). For the study 7 and 28 days compressive strengths were recorded. The previous study on this project shows that the compressive strength of the DAC (Demolished Aggregate Concrete) is somehow resembles with the conventional concrete if used in a proper amount up to 15%. the recycled aggregates that are obtained from concrete specimen make good quality concrete. The compressive strength of recycled coarse aggregate (RCA) is found to be higher than the compressive strength of normal concrete when used upto a certain %. Recycled aggregate concrete is in close proximity to normal concrete in terms of split tensile strength. The slump of recycled aggregate concrete is more than the normal concrete. At the end it can be said that the RCA upto 50 % can be used for optaining good quality concrete. in this study we have taken the demolished concrete aggregate 5%, 10% and 15% by weight of the conventional coarse aggregate and the concrete cubes were casted by that demolished concrete aggregate then further tests conducted such as workability , compressive strength for that DAC and the result obtained are found to be comparable with the conventional concrete.