

STUDY ON STRENGTH PROPERTIES IN NORMAL WEIGHT AND RECYCLED CONCRETE AGGREGATE

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The goal of this study is to develop the economical and sustainable concrete by using the concrete waste available on the site. Recycled aggregates are the materials for the future. The application of recycled aggregate has been started in a large number of construction projects of many European, American, Russian and Asian countries. The reuse of construction waste is highly essential from the view point of Life Cycle Assessment (LCA) and effective recycling of the construction resources. This paper reports the basic properties of recycled fine aggregate and recycled coarse aggregate & also compares these properties with natural aggregates. Basic concrete properties like compressive strength, workability etc. are explained here for different combinations of recycled aggregate with natural aggregate. In general, present status of recycled aggregate in India along with its future need and its successful utilization are discussed here.

