

A STUDY ON THE STRENGTH PARAMETERS OF PVC DUST CONCRETE AS AN ENVIRONMENTAL FRIENDLY ALTERNATIVE CONSTRUCTION MATERIAL

A PROJECT REPORT

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Abstract

Large scale housing construction activities require huge amount of money running into thousands of crores of rupees. Out of the total cost of house construction, building material contributes to about 70% of the cost in developing countries like India. Therefore, the need of the hour is replacement of costly and scarce conventional building materials by innovative, cost effective and environment friendly alternate building materials. The new material should be environment friendly and preferably utilizes the industrial /agro wastes. As a result of rapid industrialization, the generation of wastes has increased several folds during the last few years, which needs to be utilized /disposed safely on priority. Large number of innovative alternate building materials and low cost construction techniques developed through intensive research efforts during the last three to four decades satisfies the functional as well as specification requirements of conventional materials/ techniques and provide an avenue for bringing down the construction cost.

In this project we are trying to develop a construction material like concrete, by incorporating the industrial waste materials like PVC dust and, to convert it as an environmental friendly and cost effective construction material. Then the compressive strength of PVC dust concrete is calculated and compared with that of conventional concrete.