

Effect of Partial Replacement of Cement with Wood Ash on Concrete Block

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Abstract: Concrete is a mixer of various materials. These materials include water, cement, and aggregates. These materials include water, cement, and aggregates develop substitute materials for cement. It reduces both greenhouse emissions and the cost of concrete. In this work, an endeavor has been made to utilize wood-ash as a substitute material to cement. The effect of wood-ash as a alternative to cement on the performance of concrete has been studied. Wood is a sustainable source for energy and eco-amiable material. The cement has been replaced with wood ash by 10%, 15%, 20%, and 25%,and studied for the performance of concrete. Results confirm that the wood-ash addition as a partial alternative to cement improves the overall performance of concrete.

Keywords: Wood-Ash, Strength, Water absorption