STRENGTH PROPERTIES OF CONCRETE BY USING RICE HUSK ASH

ABSTRACT

Concrete is being widely used for the construction of most of the buildings, bridges, etc throughout the world. A huge quantity of concrete is required to meet out this infrastructure development. Fast depleting natural resources, huge consumption of energy, and environmental hazards involved in the production of cement has inspired for searching the substitution by other material with similar material, especially in developing countries. Cement is widely noted to be most expensive constituents of concrete. The objective of is study is to investigate the strength properties of concrete in ordinary Portland cement by rice husk ash respectively. The composite matrix that is obtained by combining cement, Rice Husk ash, aggregates and fibers is known as “Rice Husk ash reinforced concrete The experimental work has carried out to study the effects of cement has been replaced by rice husk ash (RHA) 10%, in common (weight of cement) and for M-25 mix. The compressive strength at 3 days, 7days and 28 days have been obtained with normal curing condition. A maximum increase in compressive strength of 32.3Mpa with 10% of RHA replacement was observed.

Key Words :Rice husk ash, cementitious material, Compressive Strength, split strength