

EXPERIMENTAL STUDY ON LIGHT WEIGHT CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT, FINE AND COARSE AGGREGATE WITH RICE HUSK ASH, SAWDUST AND SINTERED FLY ASH AGGREGATE

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ABSTRACT

The concrete mix ratio of 1:1.63:3.28. Was prepared using water/cement of 0.50 with 0%, 25% and 50 Sawdust, Sintered fly ash aggregate and fly ash as partial replacement for fine and coarse aggregate respectively Cement is also partially replaced by the rice husk. The aggregate crushing value (ACV) obtained is within the specified value as specified by the Indian standard. The strength showed in results shoes grater changes in strength, workability, and economical aspects. It may be lots of change in material but also as we see that these material available in enough amount around us. Previous research also shows that these changes will help increase the strength and workability. In light weight concrete also it necessary to lower the density/weight of the concrete and it shoes grater changes as per other combination with adequate results.

KEYWORDS: *Light Weight Concrete, Sintered Fly Ash, Sawdust, Workability Etc*

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