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### Experimental Study on Structural Properties of Concrete by Partial Replacement of Cement by Rice Husk ash

S.Arivalagan

Joint Registrar and Professor of Civil Engineering, Dr M.G.R. Educational and Research Institute Chennai-600095, Tamil Nadu, India.

Email: arivu357@gmail.com

**Abstract:** This work is carried out by using Rice Husk Ash (RHA) in concrete as a partial replacement of Ordinary Portland Cement (OPC). In the experimental investigation were taken to study the properties of concrete made with Rice husk ash. The replacement is done partially in the proportion of 0%, 10%, 20% and 30% and its effect on workability of concrete, compressive strength, split tensile strength and flexural strength made with rice husk ash were investigated. When the replacement and the highest compressive strength at 30% RHA replacement was achieved as compared to 0% RHA replacement at 7, 14 and 28 days. By using rice husk ash in concrete, we can improve the properties of concrete because of their technical tendency regarding environmental pollution and reduction of cost as well. During the production of cement, a large amount of carbon dioxide (greenhouse gas) releases which effects the environment badly.

**Keywords:** rice husk ash, Eco-friendly environment, compressive strength, split tensile strength, flexural strength test.

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