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Experimental Study on Rice Husk Ash in Concrete by Partial Replacement

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Abstract: This paper describes the experimental study on strength characteristics of M40 grade concrete in which cement is partially replaced by rice husk ash. Rice Husk Ash (RHA) is one of these waste products which are generated as a by-product of rice paddy milling industries. In this study, the strength related properties such as compressive strength, splitting tensile strength, flexural strength were calculated in which concrete specimens produced with 0%, 10%, 12.5% and 15% of the RHA as the cement replacement percentages. Specimens were tested at the ages of 7 and 28 days. Finally, concluded that the RHA replacement level of 12.5% in M40 grade concrete showed higher when compared to other replacement levels.

Keywords: Rice husk ash, Compressive strength, Split tensile strength, Flexural strength.

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