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Experimental Study of Replacement of Coarse Aggregate with Palm Shell

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Abstract : This Experimental study of concrete using palm oil shell as coarse aggregate, performed to evaluate the feasibility of palm oil shell in concrete and in reinforced concrete without affecting the mechanical properties of the concrete. For that various tests were performed to check suitability of palm oil shell in concrete. For the experimental study the replacement level of palm oil shell were taken from 12.5 % to 50 % for non-structural elements. Concrete cubes were cast, cured and crushed at the age of 7, 14, and 28 days. From the experimental analysis, four replacement of fine aggregate with palm oil shell, maximum strength and split tensile strength was obtained 25% replacement.

Key Words : Concrete, Coarse aggregate, Palm Shell.

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