

Experimental Study of Effect of Palm Kernel Shell and Coconut Shell on Strength of Concrete

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Abstract: *In India today environmental challenge is to dispose of waste Palm kernel shell and coconut shell. The use of Palm kernel shell and coconut shell has been increased day by day at all levels in the industry as well as domestic level. This waste Palm kernel shell and coconut shell remains in environment for 1000 years and these are biodegradable but in lack of waste form that's why its quantity is getting accumulated each year. The present work, the concrete is made by adding waste Palm kernel shell and coconut shell in shredded form. As per mix design concrete is prepared by addition of varying quantity of shredded Palm kernel shell and coconut shell. All the materials like cement, sand, coarse aggregate and Palm kernel shell and coconut shell is taken as per IS code. Finally concrete is tested for 7 days and 28 days. The results of compressive strength of concrete with different percentage of Palm kernel shell and coconut shell are compared.*

Keywords: Palm Kernel shell and Coconut shell concrete, compressive strength, workability

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