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EFFECT OF COCONUT SHELL POWDER ON THE STRENGTH OF SOIL

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ABSTRACT

Cocos Nucifera trees, otherwise known as coconut palm trees, grow abundantly along the coast line of Kerala. As a result coconut shells are abundantly available and it has been successfully utilised in many fields. This research is devoted to assessing its suitability as a stabilising agent in the field of ground improvement techniques. It mainly presents an experimental study on the effect of coconut shell powder on the strength of soil. Different tests were conducted on soil with varying percentage of coconut shell powder (1%, 2%, 3% and 4%). Data presented include optimum moisture content, maximum dry density and CBR value.

KEYWORDS: Soil Stabilisation, Coconut Shell Powder, California Bearing Ratio, Dry Density

