

(54) Title of the invention : DESIGN AND TESTING OF FLAT SLAB USING COCONUT SHELL CONCRETE

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(57) Abstract :

ABSTRACT DESIGN AND TESTING OF FLAT SLAB USING COCONUT SHELL CONCRETE This invention investigates and evaluates the results of utilizing coconut shell concrete having blend extent 1:1.47:0.65 with water concrete proportion 0.42 in the development of level section. Three level sections of shifting support were casted in both coconut shell concrete and typical control concrete. Absolutely six level sections were casted and utilized for punching shear study. The pieces were stacked transformed and exposed to stacking on the segment. This study incorporates the avoidance, breaking, strain and extreme punching load. The review result information got has been examined and thought about. It was found that the punching conduct of coconut shell concrete is practically identical to that of the ordinary control concrete. Nonetheless, the punching impact was all the more prevalently noticeable around the section in coconut shell concrete. The coconut shell concrete showed expanded redirection and before breaking. The heap versus redirection bend for every level chunk is addressed graphically. Result information shows that the coconut shell substantial level chunks has diminished load bearing limit contrasted with typical control concrete by 25 - 30 % for M-25 Grade of Cement.

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