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An Experimental Investigation on Partial Replacement of Copper Slag as Fine Aggregate in Paver Block

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Abstract:In present situation plenty of copper slag has been extracted as waste material from the copper industry. Here an attempt has been made to utilize the waste from copper industry as in the form slag for fine aggregate to study the behavior of paver block under this replacement. Utilization of copper slag as a partial replacement considerably reduces the consumption of natural river sand.This paper presents the effect of copper slag when added in concrete as a partial replacement of material for sand. The objective of this investigation is to study the effect of copper slag on behavior of paver block. Experimental investigations were carried out by replacing sand with copper slag of 10%, 20%, 30%, 40%, 50% and 60%. It is observed that the optimum content of copper slag that can be used as replacement material is 30% beyond which the strength starts decreasing.

Keywords:Copper Slag, natural river sand, Concrete, compressive strength.

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