

Cat Stool as an Additive Aggregate to Garden Bricks

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Abstract : Animal waste has been rapidly increasing due to the growing animal population and the lack of innovative waste management practices. In a country like the Philippines, animal waste is rampant. This study aims to minimize animal waste by producing garden bricks using cat stool as an additive. The research study analyzes different levels of concentration to determine the most efficient combination in terms of compressive strength and durability of cat stool as an additive to garden bricks. The researcher's first collects the cat stool and incinerates the different concentrations. The first concentration is 25% cat stool and 75% cement mixture. The second concentration is 50% cat stool and 50% cement mixture. And the third concentration is 75% cat stool and 25% cement mixture. The researchers analyze the statistical data using one-way ANOVA, and the statistical analysis revealed a significant difference compared to the controlled variable. The research findings show an inversely proportional relationship: the higher the concentration of cat stool additive, the lower the compressive strength of the bricks, and the lower the concentration of cat stool additive, the higher the compressive strength of the bricks.

Keywords : cat stool, garden bricks, cement, concentrations, animal wastes, compressive strength, durability, one-way ANOVA, additive, incineration, aggregates, stray cats

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