

Crassostrea Tile: Utilization of Oyster Shells as an Additive in the Production of Ceramic Tiles

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Abstract: Many environmental pollution problems are taking place due to the advancement of science and technology. Nowadays, worldwide consciousness of crisis over environmental pollution problems is spreading and counter measures to solve this came into the limelight as concerns of the entire globe beyond any regions and nations. Oyster shell is one of the problems that contribute to the environmental pollution. A large amount of oyster shells is a general waste fishermen should take care but it seems difficult to handle it effectively due to the problems of securing of landfill sites and collection and transportation of oyster shells. Because of this, Researchers came up with the idea of utilizing unused materials like oyster shells in the improvement of ceramic tiles and less expensive at the same time. This study mainly focused on providing a low-cost building material and tests the feasibility of powdered oyster shell as an additive in the components of making tile. The main objective of this study was to prove the effectiveness of oyster shell as a supplementary material in the production of ceramic tiles. In this study, the materials used and procedures undertaken were different from the conventional manufacturing of tiles.

Keywords: *Oyster shells, environmental problems, oyster ceramic tiles*