

Sustainable Production Method of Thermal Insulated Eco Friendly Bricks by Using wasteCoconut Fiber and Fly Ash for Construction Works as a Building Materials to Reduce the Green house Gas Emissions While Production of Bricks

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Abstract:

This research abstract about the production of Thermal Insulated eco friendly bricks made by Fly ash and Coconut fiber, which can not only reduce the Green house gas emission to the atmosphere but will give better compressive strength to the construction structure and it's economical too. The way construction works is growing day by day it is expected that by next decade India will be producing 200 MT bricks in a calendar year, as a result of this the Green house gas like CO₂, NO_x etc. gases emission will be more. So key target of our project is to support the construction growth and produce eco friendly bricks. Besides this these bricks will be having a compressive strength of almost equal to traditional bricks. That's the reason we choose the bricks production in an economic and environmental friendly way by using Coconut fiber and Fly ash which are basically a waste from various industries.

So this project will summarize the use of Coconut fiber, Fly ash, M-sand sludge, Lime, gypsum and water in mix design proportion so that the Good compressive strength and sustainable bricks can be produced economically.

Keywords:

Thermal insulated bricks, Eco friendly bricks, Good building materials, Sustainable method of bricks production, Economical bricks.