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"Strength Inference Of Quaternary Concrete By Sugarcane Bagasse Ash, Copper Slag And Hatchery Waste"

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ABSTRACT –

This paper focuses on the Strength inference of concrete along with the durability study with sugarcane bagasse ash, Copper Slag and Hatchery Waste as an alternate material testing of ingredients of concrete such as cement fine aggregate, coarse aggregate aggregate and eggshell powder, Sugarcane Bagasse Ash and copper slag. Concrete cubes with various trail.

KEYWORDS: Introduction, Materials, Methodology, Strength, Conclusion, Reference.

1. INTRODUCATION: -

1.1 SUGARCANE BAGASSE ASH

Sugarcane bagasse ash (SCBA) is used as a pozzolanic material in concrete. It has good blending in cement and partial replacement of sugarcane bagasse ash in cement it gives same strength in concrete. In order to effectively utilize sugarcane bagasse ash in concrete and prevent it from being thrown of as trash in large quantities, a thorough assessment of its pozzolanic activity is required. Looking for a renewable energy source from agriculture, sugarcane is at the top of the list. Many experimental works carried out on similar studies has been reviewed before initiating the work. The blending of other particle also along with main particles which has been successful studies nowadays (Sathawane et al 2013), (Senhadji et al 2014). Around 250 kg of bagasse is produced from 1000 kg of sugarcane. This drives us to have interest over SCBA. This study attempts in partial replace of cement in the concrete with sugarcane bagasse ash (SCBA) and the effects on concrete. The work is extended to study the flexural behaviour of the concrete.