

STUDY THE INVESTIGATES THE CHARACTERISTICS OF SELF-COMPACTING BOTTOM ASH CONCRETE

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ABSTRACT

This project's goal is to investigate the manufacturing of self-compacting concrete (SCC), which could boost the building sector's profitability. This will be achieved by using bottom ash in different amounts in place of fine particles. The principal aim is to create self-compacting concrete (SCC), sometimes shortened to SCC, for application in the building sector. Numerous characteristics were examined, including split tensile strength, compressive strength, and durability elements including surface scaling of deicing salt and carbonation. Other characteristics like split tensile strength and compressive strength were also examined. After testing, the SCC was shown to have a cohesive structure, be flyable, and have a compressive strength between 16 and 32 MPa. The data employed in the current investigation led to the previously described conclusions. This finding can be ascribed to the materials examined in this inquiry. They may have positive effects on the economy and technical progress in addition to their current positive effects on the environment. They already benefit the environment, and this is on top of that. The use of bottom ash increased the concrete's overall resistance to deterioration over time. This improvement resulted from the material's greater durability.

KEYWORDS: Compacting Concrete (SCC), Deterioration, Compressive and Split Tensile Strength etc

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