

# EFFECT OF PFA ON COMPRESSIVE STRENGTH OF CONCRETE

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## ABSTRACT

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For many decades, the construction industry had been using concretes with a particular type of cement. Everyone was familiar with this material. Would the industry have even considered using the 'new' cement? Maybe yes, maybe no. today there are many prestigious structures constructed using PFA concrete.

On behalf of the project title "Effect of PFA (Pulverized Fuel Ash) on Compressive Strength of Concrete", I'm going to introduce PFA by casting concrete cubes with varying amount of PFA added. The objective of the project is to determine the effect of PFA on the compressive strength of concrete. An analysis of the graphical; results has been carried out together with the calculations of the concrete mix proportion.

Next, I have made a brief introduction on the properties, characteristics and chemical composition of pulverized fuel ash, the concrete mix design calculation and graphical results will be shown clearly in the calculations and results in the report.

Throughout the project, there are three main issues which I'm going to discuss:-

- The nature and behavior of PFA
- The characteristics and chemical composition of PFA
- An analysis on graphical results related to PFA concrete.