

# STUDY THE EFFECT OF WASTE PRODUCT IF MARBLE ON THE CONCRETE'S COMPRESSIVE STRENGTH

Prepared by: Teh Peh Ting

## ABSTRACT

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The main objective of my project is to study the effect of waste product of marble on the concrete compressive strength. I will be using the marble to replace the normal coarse aggregates (granite). The main thing is to test whether the compressive strength of concrete will increase or decrease.

Few tests will be carried out to determine the properties of the marble. The scientific name and properties of the marble are being determined. The calculation for the mix design using the Doe method will be shown in my report. All of my result will be shown in table, chart or graph form.

For this project I will be casting/mixing the total of 72 cubes. I will be mixing for the control cubes for  $F_{cu}$  35N/mm<sup>2</sup> and mixing cubes for 25%, 50%, and 75% of marble for  $F_{cu}$  45N/mm<sup>2</sup> also. For each of the  $F_{cu}$  I will be mixing 9 cubes. I will test the cubes and obtain the result for the 7<sup>th</sup>, 14<sup>th</sup>, and 28<sup>th</sup> day of strength.

I will make a conclusion whether the concrete compressive strength will be increase or not after I replace it with marble based on my result.