

A STUDY ON THE EFFECT OF DUST CONTENT
ON THE PROPERTIES OF CONCRETE.

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Project Report

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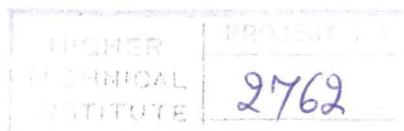
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SUMMARY

The main objective of this project was to investigate experimentally the influence of dust content present in aggregates on the strength and workability of concrete.

The aggregate chosen to be used in this project work was the reef limestone type. The material (coarse and fine aggregate) supplied from a concrete batching plant which is situated in Nicosia.

Six castings were prepared, two of which were used as trial mixes. The trial mixes were carried out in order to find out the proportions to be used which give a desirable workable (pumpable) mix. Once this was established, mixes containing different proportions of dust content (7, 10, 15 & 20%) prepared in order to investigate its effect on strength and workability.

It has been found that dust content up to 15% by weight does not affect significantly the workability and strength of concrete. However, by increasing the dust to 20% it has been shown that the workability is affected.

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