

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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A PROJECT REPORT
on

STUDY ON BEHAVIOUR OF NANO CONCRETE

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ABSTRACT

Concrete is the most commonly used building material for construction and it consumes almost the total cement production in the world. The use of large quantities of cement produces increasing CO₂ emissions, and as a consequence of the greenhouse effect. A method is to reduce the cement content in concrete mixes is the use of silica fines. One of the silica fines with high potential as cement replacement and as concrete additive is nano-silica (nS). This project work aims to present the state of nano silica application in concrete, focusing on the nano silica properties to render it suitable to be applicable in concrete. It includes the nano silica addition effect and their application in concrete. Also an overview of the experimental setup for developing nano concrete.