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ಬೆಳಗಾವಿ, ಕರ್ನಾಟಕ.



A PROJECT REPORT ON

***“Study On Strength Behaviour Of Concrete Using
Foundry Dust In Fine Aggregate”***

*A project report Submitted to Visveswaraiah Technological University in fulfillment of
requirement for the awarded of degree in*

**BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING DEPARTMENT**

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2008-2009**

SYNOPSIS

Concrete is widely used man-made construction material. It is obtained by mixing cement, water and aggregate in required proportion and allowed cure becomes hard like stone.

Advances in construction of building and requirements of concrete of high strength and durability necessitated the introduction of high strength cement in India. With the proposed plans by government and private sectors in infrastructure development like concrete roads, bridges and commercial residential high rise building, high, strength cement concrete has a significant role to play in future.

The concrete consists of hard inorganic material called aggregate such as gravel, sand and crushed stone etc., mixed cement and water. A few hours after mixing material undergo chemical reaction and mixtures get solidifies and it attains strength with age. In the past attempts have been made to improve the properties of concrete like flexural strength, workability etc., by the use of admixtures.

Admixture is defined as a material other than cement, water and aggregate that is used as an ingredient of concrete and is added to the batch immediately before or during mixing. The admixture plays an important role in modifying the properties of concrete like strength. The admixtures are used according to situation of construction.

Earlier studies have shown foundry dust (sand) can be effectively used in concrete. In this project attempts are made to study the effect of chemicals on foundry dust, concrete and also study the flexural strength of concrete.