



Visvesvaraya Technological University, Belgaum.

A PROJECT REPORT ON :

**STUDY OF THE PROPERTIES OF CONCRETE
CONTAINING COPPER SLAG AS A FINE AGGREGATE**

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ABSTRACT

Copper slag is one of the materials which is considered as waste materials in the production of copper, which can be used as partial replacement of fine aggregates in concrete. This report presents the results of an experimental study on various durability tests on concrete containing copper slag as partial replacement of sand. In this report, M30 grade of concrete was designed and tests were conducted with different percentage of copper slag as fine aggregate in concrete. The results indicate that workability increases with increases in the copper slag percentages. The Compressive Strength is increased upto 5.34 % as compared to normal concrete and also the split tensile Strength is increased upto 30.64 % as compared to normal concrete.