

## **EXPERIMENTAL STUDIES ON REPLACEMENT OF FINE AGGREGATES BY BOTTOM ASH FOR DEVELOPING HIGH STRENGTH CONCRETE**

**KIRAN M SANNAKKI & SANJITH J**

Department of Civil Engineering, Adichunchanagiri Institute of Technology Chikmagalur, India

### **ABSTRACT**

Present study investigates the effect of coal bottom ash as partial replacement to sand in concrete. The bottom ash was procured from Adani power plant Udupi, and partially replaced with sand. Compressive strength characteristics of M40 grade concrete were studied with of bottom ash varying from 0% (Conventional concrete), 10%, 20%, and 30% replacement and at different curing periods. Analysis of results showed that maximum strength of  $49.56 \text{ N/mm}^2$  by replacing 20% of bottom ash as replacement fine aggregate

**KEYWORDS:** Studies on Replacement, Construction