

## Abstract Details

**Title:** Primary Sludge and Fly Ash as A Low Cost Replacement of Building Material

**Author:** Dharmender

**Abstract:** The waste by humans being is increasing day by day, this increased waste. Thus, increasing concern for environmental protection, growing cost of waste disposal, depleting natural resources, growing economical constraints have put the metallurgical industries under tremendous pressure to find ways and means for waste utilization and also to reduce waste generation. The use of waste like fly ash and water treatment waste or sludge (primary treatment) is replaced by building materials, cement by flyash and fine aggregate by sludge. The study of 28 day unconfined compressive strength of 50:50( lime sludge: fly ash) composite is found 2278 KN/m<sup>2</sup> to be greater than 60:40 composite which is beneficial without effecting the basic property of concrete.

**Keywords:** Fly Ash, Sludge.