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Partial Replacement of Cement by Barites and Lime Powder in Concrete

P.Meenakshi¹

AP-II / Department of Civil and Structural Engineering & SCSVMV University
Kanchipuram, India

Abstract : This study represents the behavior of concrete, having partial Replacement of cement with barites and lime powder. M30 grade concrete was used for which the barites and lime powder is replaced and an experimental study was carried out and the effect on compressive strength characteristics (0%, 10%, 20%, 30%) was studied. The result of this present investigation indicates that the replacement of cement with barites and lime powder showed an increase in the compressive strength in the early stages 7th day. The compressive strength when tested on 14th day showed almost the same results for all the mixes, but the results did not show any positive results for 28th day. The usage of barites and lime powder as a replacement for cement in concrete not shown increases in compressive strength in 28th day.

Keywords : barites , lime powder, concrete, compressive strength.

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