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Mechanical Properties of High volume Fly ash concrete

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Abstract : An experimental investigation was carried to study the mechanical properties of the high volume fly ash concrete. Fly ash is a by-product of burning pulverized coal. M_{40} mix was prepared with various Fly ash replacement propositions of cement such as 0%, 40%, 50%, 55% and 60% with 0.330 water cement ratio. These test results were noted at 7, 28, 56 days intervals. Based on the results the 50% replacement of fly ash with cement gave higher compressive strength, hence the result is followed for split tensile strength and flexural strength[9]. From the results, enhancement of Mechanical properties of high volume fly ash concrete attained at the later stage as compare to the Reference concrete.

Keywords : High volume fly ash (HVFA), Ordinary portland cement(OPC), Split tensile, Flexural.

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