Experimental Study on Hardened Properties of Concrete using Magnetized Water

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ABSTRACT

In this research paper, the experimental study on mechanical properties concrete of M25 using magnetized water and also compare with blended concrete using normal water. The magnetized water was prepared using the magnetic treatment system. This paper presents a detailed experimental study on compressive strength, split tensile strength and flexural strength at the age of 7, 14 and 28 days. Test results indicate the use of magnetized water in concrete has improved the mechanical properties of concrete using magnetized water is enhances Compressive strength (11.8%), Split tensile strength (8%) and flexural strength (6.7%). Using magnetized water not only increases the mechanical properties of concrete and also reduces the usage of cement content up to 25% in concrete.

Keywords: Compressive Strength, Magnetized Water, Mechanical Properties Split Tensile Strength.