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Effect of Magnetic Water on Mixing and Curing of M₂₅ Grade Concrete

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Abstract:This study involves the investigation of influence of magnetic water on the workability and compressive strength of concrete. The water is initially magnetized with the help of 0.5hp motor having a 0.8 T magnet at its inlet pipe. Both the physical and chemical properties oh water is to be studied. Concrete samples are then prepared and cured with magnetic water and ordinary water in four different cases. About 48 concrete cubes are casted for M₂₅ grade and tested for 7, 14, 21 and 28 days respectively. The main scope of the study is to improve the qualities of water as per standards and reduce the water cement ratio thereby reducing the consumption of cement content and curing days.

Key words: Magnetic Water, Workability, Compressive Strength, Curing Ages.

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