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Mechanical Properties of Concrete with Partial Replacement of Coarse Aggregate by Waste Bottle Caps and Fine Aggregate by Quarry Dust

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Abstract : This paper represents the comparative experimental data on the mechanical properties of partially replaced concrete under compression, split tensile and flexure. Design mix of M30 grade concrete with replacement of 1.5%, 2%, 2.5%, of waste bottle caps as a coarse aggregate and 50 % of quarry dust as a of fine aggregate. The compressive strength, split tensile strength and flexural strength of concrete are found at the age of 28 days is obtained at room temperature.

Key words : Waste bottle caps, quarry dust, compressive strength, split tensile and flexural test.

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