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## Result Analysis on Compressive Strength with Portland cement M15 and M20 Grade Aggregate

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**Abstract**: According to the experiment's findings, when the percentage of sand replaced by crumb rubber and coarse aggregate replaced by EPS increased, the prepared M15 and M20 concrete brick samples' water absorption increased but their bulk density and compressive strength decreased. In comparison to regular brick, the experiment's findings demonstrated that concrete brick produced with EPS and crumb rubber in place of some of the coarse aggregate and sand had a sufficient compressive strength. The nominal maximum size of sand, coarse aggregate, crumb rubber and EPS used for the construction of concrete brick sample were discovered as 2.36 mm, 12.5mm, 2.36 mm and 4.75 mm respectively from the sieve analysis. The coarse aggregate obtained had an impact value of 17.06 percent.

**Keywords:** Expanded Polystyrene, Crumb Rubber, Grade M20, M15 Concrete Samples, Concrete Brick's Bulk Density, Compressive Strength, Water Absorption

