**ABSTRACT**

Storage and secure disposal of waste & crushed glass is a huge problem for our urban & rural areas in India. Everywhere reuse of waste glass eliminates or consumption this problem. In this experimental work, the impact of in part replacing of glass powder in concrete is studied. The cement in concrete is replaced by waste glass powder in steps of 10% 20%, 30%& 40% respectively by volume of cement and its impacts on compressive strength, split tensile strength, workability and flexural strength are calculated. It is observed that the compressive, flexural and split tensile strengths of concrete increase initially because the substitute percentage of cement by using glass powder will increase turn out to be most at approximately 20% and later decrease. The workability of concrete reduces monotonically because the substitute percentage of cement by means of glass powder increases. The alternative of cement up to about 20% through glass powder can be carried out without sacrificing the compressive strength.