

## **MECHANICAL BEHAVIOUR OF GEOPOLYMER CONCRETE BASED ON OPTIMUM DOSAGE OF FLY ASH AND GGBS**

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### **ABSTRACT**

*In the present study, an attempt has been made to find out an optimum mix for the geo-polymer concrete (GPC). fly ash, ground granulated blast furnace slag (GGBS) and Alkaline liquids have been used to prepare GPC mixes. prepared Cubes, cylinders were cured under hot oven. Cubes of size 150mm×150mm×150mm have tested for their residual compressive strengths. Cylinders of size 150mm×300mm are tested for their tensile strength. GPC cubes, cylinders of different proportions of fly ash and GGBS were prepared and their results were drawn. The GPC with 50-50 ratio gives comparatively higher strength but optimum strength for M30 grade concrete is 60-40 ratio.*

**KEYWORDS:** *Thermal Power Plants, Optimum Strength, Strength of Geopolymer Cubes*

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