

## A REVIEW ON GEOPOLYMERIZATION OF RED MUD FOR CONSTRUCTION INDUSTRY

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### ABSTRACT

*Rapidly growth of Indian aluminum industry generates the significant amount of solid waste. Red mud is major solid waste generate from aluminum industry. Red mud contains some toxic elements, dumping of red mud contaminates the soil and water and also covers the valuable land. Geo polymerization technique could be the promising future for disposal of red mud. Geo polymerization leads to convert red mud into cost-effective binders in presence of alkali media, which demonstrates better mechanical and durability properties than conventional binders. The present study recaps the studies on geo polymerization of red mud produce from aluminum industry. The effect of different synthesis parameters (Alkali type, alkali concentration, curing temperature and molar ratio etc.) on the strength and durability of geopolymer is reported.*

**KEYWORDS:** Construction Industry, Geo Polymerization& Red Mud

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