

UTILIZATION OF FLY ASH AND HYDRATED LIME FOR RECLAMATION OF MUNICIPAL DUMPING GROUND

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ABSTRACT

Dumping ground occupies huge land, pollute environment and pose health issues with contaminated waste lying open to atmosphere. Most countries abroad have abandoned this practice in favor of reclaiming of waste land. It has become necessary to develop strategies of land re-use for completed landfills to improve environmental profile. This dumping site does not have enough strength to take load of structure to be built on it. In this research a strategy is developed for stabilization of such municipal dumping ground for reuse such land. Fly ash and hydrated lime is mixed in dumping ground at various proportions to improve strength of ground. This paper presents analysis of results obtained from experimental investigation done on stabilized dump. The strength of dump is measured using Dynamic Cone Penetrometer (DCP) Test. Use of Dynamic cone penetrometer is faster and easier way to determine the strength of stabilized dump.

KEYWORDS: Fly Ash, Hydrated Lime, Dumping Ground Stabilization, DCP