

Thesis Title:

Investigation on the Applicability of Bottom Ash for Restoration of Clay mines in Sri Lanka

Abstract:

With the development in the field of Civil Engineering, the usage of clay bricks and clay roof tiles has been increased. With the increase demand for clay the mining of clay has become mechanized. It has generated larger and deep clay pits along the rivers and miners abandon pits without any rehabilitation due to higher cost for the fill materials and non-availability of suitable fill materials. And the major challenge faced by the engineers in the current scenario is the disposal of waste products. With the increasing demand in energy, the combustion of coal has been increased very rapidly. Therefore, the generation of coal combustion by products have been increased. Bottom ash is one type of waste by-product generated in the coal combustion process. The bottom ash is always a major problem due to the disposal as a landfill that affects the environment. In this research the applicability of bottom ash for restoration of clay mines in Sri Lanka will be investigated. If it is applicable it will solve dual problems of bottom ash and clay mining.