

## ABSTRACT

The area of the research is a former coal mining area in the East Pit 1 Banko Barat, one of jobsites of PT. Bukit Asam Tbk in the District of Tanjung Enim, Muara Enim regency, Sumatra Selatan Province. Coal mining method is conducted using open pit methods and the result of the mining activities should be performed reclamation activities that are implemented by means of revegetation to restore the area functions as intended it.

East Area of Pit 1 is 47.14 Ha and disposal Pit 1 area will be laid out East is 9.5 Ha . The number of top soil available on the East Pit 1 is the LCM 523 778 . From the research , land leveling systems require as many as 47,500 LCM of top soil , the system uses heavy equipment Bulldozer with the number 1 ( one ) unit of the tool and its total operating cost of Rp . 39,588,780 with structuring time for 9 days 5 hours . For mound system , requiring as many as 15,200 topsoil LCM , using heavy equipment Backhoe with number two ( 2 ) units of equipment and 1 ( one ) unit bulldozer with its total operating cost of Rp . 75,754,177 by the time the arrangement for 8 days 5 hours . The latter system is a system of pot / hole , this system requires as many as 3,420 LCM of top soil , using a backhoe heavy equipment is one ( 1 ) unit of the system is spending a total operating cost of Rp . 24,909,032 by the time the arrangement for 7 days and 7 hours .

Of the three systems studied above , these systems can be used for landscaping because of its top soil needs can be met . But the system is the most efficient and effective use is the system pot / planting hole . The reason the system uses pot / planting hole is to conserve topsoil that can be used for reclamation activities on the next location and the total cost ( cost ) for the low activity landscaping .

Making pot / planting hole using the equipment available in the field is 1 ( one ) unit backhoe komatsu PC200 - 8 . One unit backhoe komatsu PC 200-8 can make 2 holes in the quarry before making a transfer position . Activity charging pot / planting hole begins after potting / planting hole is made . Shoots soil ( top soil ) shed by Dump Truck in near pot / planting hole to facilitate retrieval of top soil ( top soil ) of backhoe work . The volume of each pot / planting hole is 0.9 m<sup>3</sup> and a backhoe bucket capacity is 0.8 m<sup>3</sup> - 1 m<sup>3</sup> so filling each hole is done by shedding the pot once.