DESIGN AND BUILD OF POTATOES HARVESTER MACHINE
SCRAPER AND CONVEYOR PARTS

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Abstract

Potatoes are the agricultural commodities that have the potential to be developed in Indonesia. At harvest, the method used was very simple, just use the hoe. The farmers complaining for the need so much work force for harvesting while the labor cost are getting increase, and the time spend for harvesting process are too long. Even if there is a tool for foreign-made potato harvesters are very expensive and not suited to the conditions of potato farming in Indonesia.

The design machine consist of the three main part, that are potatoes scraper to scrap potatoes from the soil, potatoes conveyor and screener used to separate potatoes from the soil. This potatoes focusing on the design and building process of the scraper part and conveyor part. The scraper imitate the shape of shovel that will be placed inclined to dig the potatoes. While the conveyor use chain conveyor.

And this project resulting a machine that capable of digging potatoes from the soil and distribute them to the collector, with this machine the harvesting time can be reached two days faster compared to manual harvesting for every acre of land.

Key words : farming environment, scraper, potatoes conveyor