

ABSTRACT

Indonesia is a Southeast Asian country that is famous for its fertile agricultural resources. Especially as an agricultural country, one of the export and industrial commodities is agriculture. In urban areas which today can only allow small-scale agricultural land sector and to make use of heavy machinery and its support component deemed inefficient, farm workers who are often encountered still use traditional tools or alternative tools. Etem is a tool for harvesting rice but can be converted into another crop harvesting tool as an alternative. Chinese spinach (Kangkung Darat) farming uses the same tools as rice because the land is usually used to grow rice. The etem tool still has a number of problems which generally result in work accidents and the fragility of the device. The incompatibility of mechanization and tools used is the main topic of design with international source references according to the FAO (Food and Agriculture Organization) of the United Nations for developing countries such as Asian and African countries. Methods for designing harvest tools specifically used for harvesting chinese spinach should address the problem. - the problem with the competitor's product as a reference. Using the criteria selection method, systematic design by dividing the system into structures that can be analyzed more clearly before finally being valued by the rubric method.

Keywords: *horticulture, chinese spinach, agriculture, systems, mechanization*