

ABSTRACT

Farmers need coffee milling to increase productivity. The purpose of this study are: 1) Provide information to coffee farmers about work productivity; 2) Develop and modify existing equipment, to make it easier for farmers to use. This research was conducted in Barusjahe sub-district, Karo regency, Pronvince of Sumatera Utara with span of 2 months, starting from February until March, with research object of coffee farmer. Coffee milling equipment is made using the design concept of visual, function engineering and redesain existing tools. The results of this research activity is the creation of a new coffee milling tool with a change of propulsion mechanism, from which it was originally driven by rotation of the hand changed to the foot rotation. The productivity of the tool with hand rotation produces a coffee bean of 8.91 kg / hour while the productivity of the tool with a foot rotation of 12.41kg / hour.

Keywords: coffee farmers, productivity, coffee milling design.