ABSTRACT

PT Perkebunan Nusantara VIII (PTPN VIII) is one of Indonesian tea processor located in 6 districts of West Java. One of six that will be the object research is in PTPN VIII Kebun Ciater located in Ciater, Bandung, West Java. This factory is specialized for orthodox black tea processing that will through 8 production processes. In grinding workstation there are two processes, grinding and wet sortation. In wet sortation process, a lot of grinded tea leaves come out of the container and drop to the floor. The dropped leaves will be accommodated to get reprocessing after the grinding process is done. However, the dropped tea leaves cause its contaminated by metal properties from the welded machine or rusty machine. So that can cause adding process to-do by operator like accommodating the dropped leaves and checking the quality of the leaves. By using Framework Mechanical Design and Tools adopted from Ulrich-Eppinger, the design of this product is expected to minimize the contamination/

The result from the Framework Mechanical Design and Tools stages is specification from the design of the made tools. The designed tools with picking tea leaves mechanism and sorting tea leaves from contamination mechanism are expected to reduce the contamination as much as 30%.

Keyword: Framework Mechanical Design, Ulrich-Eppinger