

ABSTRACT

Plastic waste is a common object and is often found in various corners of the world. Every year the community continues to increase consumption of plastic waste, but it is not balanced with comprehensive waste management. Lestari Green Waste Bank is one of the waste managers who is able to overcome these problems, especially plastic waste. The management carried out by the Waste Bank is passed through the process of mobilization, enumeration, washing, until it ends with drying. The whole process is not done automatically as a whole, only 2 of them use the optimization engine. In the process of mobilization found some ergonomic constraints, because the process is carried out manually, so that at certain moments, the operator at the workstation involved may be affected by Musculoskeletal Disorders (MSDs). Thus ergonomic interventions need to be done, namely by calculating with certain assessments, such as RULA and REBA. After doing research, it is found that both of them have the potential for improvement. Obtained RULA value of 3 and REBA of 11. Based on these data the researchers determined a tool design using the EFD (Ergonomic Function Deployment) method in designing a Bucket Elevator.

Keywords: RULA, REBA, *Alat Bantu*, MHE (Material Handling Equipment), EFD (Ergonomic Function Deployment), MSDs (Musculoskeletal Disorders), Bucket Elevator.