

## **ABSTRACT**

*One of the production process which causes issues with the condition and health of the workers is manual material handling. In CV. Kembar Mekar, a firm which produces animal feed materials, exist a process of moving grinded coffee husk to weighting area using a manual material handling equipment and is done repeatedly. This is done because the grinded material is left piled up on the floor and the discharge of the machine is too close to the floor. This has the effect of increasing the level of fatigue and the risk of danger to workers, especially the risk of developing MSDs (musculoskeletal disorders). Based on these problems, a change or elimination in the process of manual movement is required. This change may be done by creating a design of material handling equipment using Nigel Cross' product design method that is able to move the material automatically and is adjusted for the existing work station.*

**Key Words:** *Manual Material Handling, CV. Kembar Mekar, Rational Design Method, Nigel Cross, MSDs, Material Handling Equipment.*