

ABSTRACT

UMKM of cassava chips in Rajamandala Kulon Village, Cipatat District, West Bandung Regency which is part of the Ikhlas Ramaku Village Technology Service Post is one of the medium-sized industries that is engaged in the food sector for making chips made from cassava ingredients. There are several steps in the process of making cassava chips from cutting cassava, milling cassava, cutting dough, forming chips, drying, and frying. Of the entire process, there are four processes that use semi-automatic tools. One of the processes of making cassava chips is the shaping of cassava dough using a grinding machine. In this process, there are problems from the ergonomic side due to the repetitive movements of the operator when inserting cassava into the machine which is at risk of causing Musculoskeletal Disorder (MSDs). This risk can be seen from the ergonomic calculations through OWAS and RULA with a value of 2 each, which means that there is a need for immediate improvement and 6, which means the need for further investigation and immediate improvement. In order to avoid the risk of MSDs, it is necessary to have an ergonomic approach. By applying the Ergonomic Function Deployment (EFD) method, an ergonomic design is obtained with the results of the OWAS and RULA values of 1 and 2, where these values are categorized as safe values for the operator.

Keyword : RULA, OWAS, Musculoskeletal Disorder, Ergonomic Function Deployment, Ergonomic, Work-related Disease