

ABSTRACT

Alona Jaya CV is a private company engaged in the export business equate reptile leather and finished goods from reptile skins are. Results from reptile leather tanning process is equated divided into two categories, namely the original color and color waste. Processes tannery color waste reptile skin is to wasted equate batik patterns. The tanning process produces original color of the skin of reptiles equated with maintaining original batik patterns of the reptile.

In improving worker productivity, companies must pay attention to working posture and working conditions in accordance with aspects of ergonomics. Bad working posture can cause musculoskeletal complaints. Physical complaints experienced by workers and working conditions unfavorable to encourage companies to improve working posture and working environment in the drying process of reptile leather original color. Repair work postures are performed using the method OWAS (Ovako Working Posture Analysis System) because this method can help companies analyze working posture of each subprocess.

From the analysis OWAS known that the drying process are included in the working posture with a score of 4, which means working position needs to be changed immediately. This improvement was also carried out on the analysis of physical complaints for workers as well as the analysis of the work environment. Analysis done using physical complaints Questionnaire Nordic Body Map (NBM) given to workers before and after doing the work. Nordic Body Map Questionnaire analyzing 13 body parts of workers with the level of complaints "Not Sick", "A little pain", "Pain", and "Very Sick". NBM questionnaire results showed that workers experiencing pain in some parts of the body, 75% of workers experienced pain in the neck, 75% of workers experience pain in the upper back as well as 50% of workers experienced pain in the right shoulder and left.

Proposed improvement of work postures done by designing an ergonomic work

tools that can provide comfort for workers. Design tools is done by using the anthropometric data of 30 samples were then tested normality, uniformity test, and test the adequacy of the data.

Analytical results obtained by the OWAS method to work postures that work on the overall posture of each subprocess drying has a score of 1, which means that the working posture is normal so there is no improvement. Based on this it can be concluded that the new drying process of reptile leather original color better than the the drying process of existing of reptile leather original color. New drying process of reptile leather original color makes it easy for workers to perform drying process and can reduce musculoskeletal complaints experienced by workers. Expected with the implementation of drying process of reptile leather original color proposals, companies can increase employee productivity and quality of the leather produced.

Keywords : OWAS (Ovako Working Posture Analysis System), Nordic Body Map, Physical Work Environment.