

ABSTRACT

Abstract, Rumah Batik Komar is a company that its activity involve with making of batik fabric. Scraping process needs 30-60 minutes to complete its process using squatting posture. Squatting posture is an awkward work postures as there are misappropriation from the ideal working posture. If these awkward work posture is allowed continuously, this can cause higher risks of Musculoskeletal Disorders (MSDs) or tissue damage in parts of the skeletal muscles. Awkward work postures operator in scraping workstation caused by the use of a work desk and scraping tool that operator used which is not ergonomic.

RULA (Rapid Upper Limb Assessment) is a method used to assess posture, strength, and upper body movement related to activities that doesn't need to move from one place to the other. Assessment scraping posture in Rumah Batik Komar use RULA method, because operator's activity scraping using upper body movement and doesn't need to move from one place to the other.

Results from RULA assesment method for scraping is 7 on the right and left, which is the highest score and the most dangerous posture that can caused higher risk of MSDS, which means the investigation and changes are needed as soon as possible. Improvement working posture with using improvement supporting tools specification get a final score of 3 on the right and left, which means need further investigation may be required and the necessary changes. Conclusion that we can get from this research is improvement design for supporting tools can reduce the risk of Musculoskeletal Disorders (MSDs) on scraping operator in Rumah Batik Komar.

Key Word : *Musculoskeletal Disorders* (MSDs), Scraping stamp, RULA (Rapid Upper Limb Assessment), Awkward posture.