ABSTRACT

Musculoskeletal complaint is a complaint that experienced in the skeletal muscle sections, one of the causes of a complaint musculoskeletal lift transport activity is carried out manually. This research aims to identify factors that influence the level of the complaint, identify the body weight and rate the feasibility of the proposed alternative system of work. research methods used in this research is the direct observation in the field, the distribution of the questionnaire, transport lift the burden of the identification method using the heavy, awkward lifting and frequent analysis and analyzes the feasibility of the proposed alternative system approach to working with the benefit cost ratio (B / C). This research was conducted in the supply of fertilizer warehouse PUSRI Kediri village Branggahan District Ngadiluwih.

External factors (heavy load, the frequency of carriage, carriage way) and internal factors (age, employment duration, smoking habits, the consumption amount of smoking, smoking duration) influence the level of complaints in workers musculoskeletal lift transport. complaint musculoskeletal most respondents are experienced in the neck and the top down, left and right shoulder, left arm up, back, waist, buttocks and left thigh. actual expenses (actual weight) greater than the weight limit on the number and value of lifting index (Li) reached 3.75 (highly stressful task). proposed an alternative system of which work with the addition of forklift equipment, transpallet and additional labor. results from the analysis of the feasibility of proposed improvements to the system approach to working with the benefit cost ratio (B / C) values obtained with the forklift B / C 0,08; transpallet with a value of B / C 1.5 and the addition of labor to the value B / C 0,02.

Obtained from this research activity that results in the lift transport fertilizer warehouse inventory PUSRI Kediri high risk of going musculoskeletal and alternative system of work is eligible in terms of applied economics is a tool with the addition transpallet.

Key word: Musculoskeletal Injuries (MSIs), Metode Heavy, Frequent and Awkward Lifting Analysis, Benefit Cost Ratio (B/C)