

ABSTRACT

Human resources management is needed to improve the effectiveness of human resources in a company. PT Dharma Precision Parts is an automotive components company of motorcycles, in which one result is the production arm stay. Arm stay production floor is divided into four work stations use one person in each work station. Increasing labor cost causes salary expense for companies.

This study aims to analyze the feasibility of the replacement of human resources by the conveyor system at PT Dharma Precision Parts especially on the production floor area of arm stay three in one work station to the centerless grinding work station which is based on the analysis of effectiveness and efficiency that is useful to know whether or not the manufacture of conveyor systems in terms of engine performance and in terms of cost. The scope of this study discusses the mechanical components of the conveyor without taking into account the electrical components in it.

Based on the analysis performed by the authors using the comparative effectiveness of performance measurement time using a conveyor faster than the effectiveness of the existing condition. The use of conveyors making the amount of material that can delivered per hour can be targeted appropriately. Furthermore, the efficiency analysis results of the conveyor using Benefit Cost Ratio (BCR) to analyze in terms of cost. For more enhance the effectiveness of the performance of the engine in the future, advisable to further improve the research in order to complete the automation of data and the calculation of the tests performed more clearly and definitely on the performance of the engine.

Keywords: effectiveness, efficiency, time measurement, benefit cost ratio (BCR)