Time and Motion Study of a Tea Processing Factory, Badulla.

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ABSTRACT

The production of tea is one of Sri Lanka's major foreign trade source. Unwanted costs and high time-wasting cause significant effects on the made tea production and profit. Tea factories suffer with these issues and Sri Lankan tea productivity is being declined. Critical controllable elements that make productivity low are inefficiency factory layout, unwanted labor movement, and unwanted time waste. As a solution to these kinds of problems, time and cost-saving are important to the tea factories, and the production and efficiency can be increased by using time and motion study to the factory or any plant. Decreasing the cost of production assure to achieve higher productivity with higher profit in the tea industry Therefore this study aims to apply the time and motion theory for tea manufacturing factory. The collection of data was done through a personal tea factory visit at the time of activity. Data was collected in the form of a time study table form. It has to be taken while activities are performing in its actual time, and the time has to be noted in the time collection sheet. The distance traveled by the workers in each process was collected and noted in the motion study form. To find out the body discomfort part that faced by the workers were interviewed with a questionnaire. The ankle and feet pain is observed to be common in both men and women workers. The suitable layout is proposed as per the actual space available. The newly proposed layout could save time and motion.

Keywords: Tea processing, Time and motion, Distance, Layout