PROCESS IMPROVEMENT ON MANUAL MOLDING PROCESS AT MASA ECOLOGICAL DEVELOPMENT INC.

THESIS

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ABSTRACT

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The study was conducted to improve the company process under manual molding section in producing lampshades and frames product. A medium lampshade is composed of seventeen (17) pieces of circular honeycomb while the frame product contains of fourteen (14) pieces of honeycomb panel.

The gathered data were analyzed and evaluated through the use of industrial engineering tools in order to create and to improve existing process in producing the lampshade and frame products. Using vacuum machine in making circular honeycomb, 39.30 minutes were needed to produce one unit. Similarly, 47.28 minutes were needed to produce one unit for the honeycomb panel. However, the use of the presser machine in this study would lessen the amount of time spent in producing the units. For the circular honeycomb, only 16.58 minutes were needed and for the honeycomb panel, only 16.49 minutes were used. The ideal number of worker/s to be assigned to the production line was determined. One operator for circular honeycomb and another operator for honeycomb panel. In terms of profits the circular honeycomb lampshade could gain a profit of ₱ 13,919.00 pesos and ₱ 17,853.92 for frame honeycomb panel. Through the use of cost benefit analysis, it was found out that the company could save by up to ₱ 12,967.50 pesos per month and ₱ 168,577.50 pesos per year.

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INTRODUCTION

MASA Ecological Development Inc. is a manufacturer of decorative accents like handmade paper, home decor, lamps, wall paper and wall decor. The firm was located at Barangay Carasuchi Indang Cavite and owned by Mr. Wataru Sakuma. The supervisor in charge in the site is Mr. Tommy Sibaen which handles the people and knows the process flow of the product.

The Manual Molding Process served as main asset of the company in producing lampshades and frames product. The company wants to improve some process and produce more output but not affecting the quality of the product.

In fact, process improvement involves an actual improving of some functions in the production area so that the operation is more efficient and crises are better prevented. Analyzing the causes behind the problem or crises could helps to reduce variation within the process and remove non-productive activities. In addition, a variety of factors were