

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

THESIS

**EMMANIELYN B. ARRIOLA
APPLE JOY N. MOLINA**

**College of Engineering and Information Technology
CAVITE STATE UNIVERSITY
Indang, Cavite**

April 2014

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

**Undergraduate Thesis
Submitted to the Faculty of the
College of Engineering and Information Technology
Cavite State University
Indang, Cavite**

**In partial fulfillment
of the requirements for the degree
Bachelor of Science in Industrial Engineering**



*Process improvement on manual molding
process at Masa Ecological Development
658 5 Ar6 2014
T-5309*

**EMMANIELYN B. ARRIOLA
APPLE JOY N. MOLINA
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ABSTRACT

ARRIOLA, EMMANIELYN B. and MOLINA, APPLE JOY N., Process Improvement on Manual Molding Process at MASA Ecological Development Inc. Undergraduate Thesis Bachelor of Science in Industrial Engineering. Cavite State University, Indang, Cavite. April, 2014. Adviser : Engr. Willie C. Buclatin.

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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**Emmanielyn B. Arriola
Apple Joy N. Molina**

An undergraduate thesis presented to the faculty of the Department of Industrial Engineering and Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite, in partial fulfillment of the requirements for the degree of Bachelor of Science in Industrial Engineering. Contribution Number CEIT-2013-14-004. Prepared under the supervision of Engr. Willie C. Buclatin.

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 help to reduce variation within the process and remove non-productive activities. In addition, a variety of factors were