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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND OF THE STUDY

The use of plastic bottles has continually aided the growing industries. One of the countries biggest users of plastic bottles is Wilkins Philippines Corporations, a subsidiary of Coca-Cola Philippines that produces Wilkins Distilled Drinking Water. The study deals with the importance of plastic bottles in the bottled water industries.

Wilkins Distilled Drinking Water is one of the country's leading producers of distilled drinking water in plastic bottles or containers. Wilkins produces distilled drinking water in plastic bottles in many kinds: 320ml, 600ml, 1L, 1.5L, 2L, 4L, 6L, and 5L gallons- all in plastic bottles or containers.

Plastmack is the main supplier and producer of 320ml and 600ml plastic bottles for Wilkins Philippines Corporation. These bottles are originally in preform being blown by the machines.

The problem encountered in the Plastmack is to lessen the 12% reject of 600ml plastic bottles, which affect the production area.

1.2 COMPANY PROFILE

Company History

San Miguel Corporation is divided into three companies; Coca-Cola Bottlers of Phil. Inc., Philippine Beverage Partners Inc., and Cosmos Bottling Corporation. These companies manufacture powdered or canned juices, sodas, and other beverage products such as Sprite, Royal, Schweppes (tonic, soda water), lift bar, distilled drinking water,

and many more. The companies are believed to be the most successful with the products among its customers.

The Philippine Beverage Partners Inc. (PBPI) has subsidiaries like First Distilled Water, Viva Mineral Water, Magnolia, Eight O' clock, PowerAde, Funchum, and Wilkins Phil. Corp. The company has been around since 1991. Located at Gateway Business Park, Gen. Trias, the company produces distilled drinking water. As a subsidiary of PBPI, the company is considered as one of the best competitors in its nature. The company chooses to manufacture distilled drinking water because it can provide safe drinking water, and stay focused on the health of the customers, It also believes that it is the most efficient product that will stay in business and become more competitive than other brands in the coming years.

Company name: Wilkins Phil. Corp.

Location: Delos Reyes St. Gateway Business Park Gen. Trias, Cavite

Affiliated Company: San Miguel Corporation

Foundation: 1991

Establishment:

Product line

- 320 ml Distilled Drinking Water
- 600 ml Distilled Drinking Water
- 1000 ml Distilled Drinking Water
- 1500 ml Distilled Drinking Water
- 2000 ml Distilled Drinking Water
- 4000 ml Distilled Drinking Water
- 6000 ml Distilled Drinking Water
- 5 Gallons Distilled Drinking Water

1.3 STATEMENT OF THE PROBLEM

Plastmack encounters 12% rejects in producing 600ml plastic bottles for Wilkins Philippines Corporation.

1.4 OBJECTIVE OF THE STUDY

1.4.1 GENERAL OBJECTIVES

To minimize the percentage of rejects of 600ml plastic bottles for Wilkins Philippine Corporation.

1.4.2 SPECIFIC OBJECTIVES:

- Identity the causes why the Plastmack is suffering a 12% reject on 600ml plastic bottles.
- To maximize the output of bottle making process.
- To minimize the high rejection rate.

1.5 SIGNIFICANCE OF THE STUDY

This study entitled, “Minimization of the rejects of 600ml Plastmack Plastic Bottles for Wilkins Philippine Corporation” It will be a great help and importance to the readers, employees and company where the information or the given data written can be helpful in terms of their knowledge about what is happening to the company.

1.5.1 **For the company**, this study aims to determine ways on how to improve the Company's productivity and decrease the numbers of rejects. Moreover, this can also provide the alternative solutions to the problems the company might be facing. In addition, this study can serve as a reference for improving the company's stability.

1.5.2 **For the students**, this study aims to enhance the skills of the students in conducting a company study by exposing them to the field where they can apply the different techniques learned in solving the problem in the area. It will also serve as their reference for future study.

1.5.3 **For the researchers**, they will benefit from the study since they are at the College of Engineering Technology where they learned to apply knowledge and experience they had in the Company. It also helps other researchers through a supplement knowledge on every bit of information gathered, collected, and compiled in this study.

1.6 SCOPE AND LIMITATIONS

This study shall concentrate only on the production of 600ml Plastmack plastic bottles. The main problem of this study deals with lessening the 12% rejects of 600ml plastic bottles.

The study is concerned in the condition of the company wherein the organization will get an idea as to how they would be able to lessen the numbers of rejects in their products. In line with this, the researchers focused the study on some of the solutions that will help minimize the 12% rejects of 600ml plastic bottles.

1.7 METHODOLOGY

Actual observation on the company, specifically on the Plastmack was enacted. Noticeably, there was a lack of training and seminars among the machine operators who are responsible for the rejects of plastic bottles.

This was conducted with the manager of logistics office, Mr. Alvin Aquino. The personnel at the blowing section are also interviewed to identify potential problems and the nature of the production of bottle.

The production process at the blowing section was observed to identify potential problems and their causes. The process of inspection is also observed to evaluate the types of defects at blowing section. Conducting interview, observation, and tabulation of some data are the principal source of treating data in particular department. An interview is a direct interaction between the interviewer and the interviewee.

1.8 DEFINITION OF TERMS

Blowing - Heated preforms are then automatically pick-up by the machine transport arm into the mould and air is introduced into the mould.

Distillation – a process of eliminating the solids of water.

PET bottle – Plastic material used as a container for water or any base liquid.

Plastmack - This is where the bottles of Wilkins are produced and stored.

Preform – Test tube like material that undergoes blow-molding process to produce plastic bottle.

Preform Dumper - New preforms are poured in hopper bin by positioning perform bin into the perform dumper.