



THE EFFICIENCY OF THE CABIN

(SPRAY COLOUR)

TERREAL (M) SDN. BHD.

TECHNOLOGY ENTREPRENEURSHIP (ENT600) : CASE STUDY

FACULTY & PROGRAMME : FACULTY OF MECHANICAL ENGINEERING EM220
SEMESTER : 07
PROJECT TITLE : THE EFFICIENCY OF THE CABIN
(SPRAY COLOUR)
GOUP MEMBERS : 1. MOHD FAZRYDEEN BIN YAHYA
2. MUHAMMAD SYAKIR BIN KAMARULZAMAN
3.
LECTURER : MADAM HJH ZANARIAH

CASE STUDY(ENT600) : GUIDELINES & TEMPLATE**CHECKLIST FOR DEFINING THE TASK**

NO	QUESTION	YOUR COMMENTS
1.	What is the context/background of the case study? (eg. The type of industry, location, who requested the report)	
2.	What appears to be the problem? (Read the case and summarize in your own words what you initially understand to be the situation/problem/risks etc...)	
3	What questions or instructions have been given to guide your analysis of the problem?	
4	What tools will you use for your analysis? (SWOT and CTC template, etc...)	
5	What else do you already know about this situation or this type of problem?	
6	What else do you need to know?	
7	How will the report be presented? (Due date, length, essential sections, conventions, presentation)	

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INTRODUCTION

For the assignment of Technological Entrepreneurship (ENT600), we had to do the case study of a business in term of technological aspect. The purpose is to expose the student about a business operation and analysis of the technology in the business. Not only that, this is beneficial to the business as we will provide them with an improvement ideas and recommendation. It is a win-win situation because the student will develop their critical thinking and problem-solving skills and the business have an improvement idea.

This case study is to analyze the problem that occur in the Terreal (M) Sdn. Bhd. This is the one of the production factory, which mean it has line production. This factory is produces the roof tiles. The tiles are pass through the cabin after pressing, and then enter the cabin to spray colour before enter the kiln (burner). The roof tiles are coat with colour as demand from the customers.

The purpose of this case study is to determine the efficiency of the cabin that spray the color to the roof tiles. The production line always run and the cabin always spray the color although the tiles is not in line. It is make a waste of the color that always spray out without colored and covered the tiles.

COMPANY BACKGROUND

Terreal group has 26 factory around the world, Terreal Malaysia Sdn Bhd is one of them. Terreal Malaysia Sdn Bhd started at 1994. With the technology of France, Terreal Malaysia Sdn Bhd export terracotta roof tiles with high quality to others country, mainly on Asia such as Korea, Thailand, Taiwan, Singapore, Philippines and others.

- This company operated since 1994 which known as TBF until 2001.
- In the beginning of 2002, it changes to Saint Gobain Terreal Malaysia.
- From 2006 until now, the name change to Terreal Malaysia Sdn Bhd
- Base area of the company : 14 ekar
- Base area of the roof tiles placement : 9 ekar
- Capacity productivity : 50000 pieces per day
- Number of workers : ~ 240 people

Clay tiles have been around of centuries providing their long lasting and durability attributes. Clay tiles made successfully building product of this company. The properties of clay tiles:

- Long lasting color
 - TBF clay roof tiles are fired at extremely high temperatures, around 1050°C ensuring our clay tiles will not fade, rude and corrode.
- Cooling
 - Our clay tiles are a natural thermal mass insulator, keeping the heat outside. The best way to illustrate this is to think of clay tiles as energy savers. Cooling is the largest energy consumption in an average house under tropical climate.
- Strong security & weather resistance