

# **CHAPTER I**

## **INTRODUCTION**

### **1.1 Background**

Internationally speaking the problem of delay in all kind of engineering construction is a very common problem, causing a multitude of negatives results to all participants concerned. Even though many study has been completed, the problem continue to persist. In this research, the aim is to identify the most common factors of delay and their consequences in term of company productivity and quality of the product from the point of view of managers, contractors, consultants, and owners in Yogyakarta. Which is very important because the key of a successful construction project is the time.

If we enumerate few consequences of those problem based on our simple thinking then delays inflict non-satisfaction of the client and the contractor; it can be until the stage that the construction of the building or the project may not finish. Delay causes lost of profits of the owner plus the contractor and increase the construction budget; it may reach until more then twice or even more to the original budget. Longer disturbance of the society caused by the noise, dusts, uncomfortably and dirt's caused by the construction. And more.

Now as concrete example, we can refer to a famous building located in Australia call The Sydney Opera House. We all know the story about how long time takes to construct the building, actually planed for 18 month but at the end it took 15 years to finish, and how much the over cost they spend until its totally finished. Another one of the best-known perennially incomplete buildings is in Barcelona, a church that has been under construction since 1882, and that is now expected to be complete in 2026.

## **1.2 Research questions**

This study will be conducted generally based on the following questions:

- a) What are the main factors of construction delay at Yogyakarta city?
- b) How those delay affect the productivity?
- c) The quality of the product remains the same or not?

## **1.3 Benefits of this study**

The benefits of this study will be as follow:

- a) Amelioration of construction time management.
- b) Possibility of reasonable solutions to overcome these difficulties for a specific project.
- c) Assurance of quality product.
- d) This can be used as reference for the next similar research.

## **1.4 Research Purposes**

This study will determine the main causes of engineering construction delay in Yogyakarta city and explain how it will its affect in the company productivity and the quality of the products.

## **1.5 Structure of this study**

Chapter one Introduction

This chapter announces and describes the research background, research questions, the benefits of the research, the methodology used for the research and the structure of the study.

## Chapter two Literature Review

This chapter contains the summary of founding of similar studies, done previously by other searchers.

## Chapter tree Methodology

In this chapter, the place of the research and all methods used for the whole study will be described like data collections, the analysis, etc.

## Chapter four Data Analysis

This chapter discus about the statistical analysis through the responses provided by respondent during the data collections. The result of the research will be provided on this chapter as well.

## Chapter five Conclusions and Suggestions

This chapter contains the conclusion of the entire result of the study, suggestions, limitations and recommendation to whom will do a comparable research in the future.