

CHAPTER I

PRELIMINARY

1.1 Background

Kuningan is a regency of West Java province of Indonesia. It covers an area of 1,194.09 km², and it had a population of 1,167,686 at the 2020 Census. Kuningan is bordered by Cirebon Regency to the north, Majalengka Regency to the west, Ciamis Regency to the south and Brebes Regency, Central Java to the east. Its mean elevation is 680 metres (2,520 ft) above sea level. The highest mountain in the province, Ciremai (3,076 m) is located between the border this regency and Majalengka Regency.

The condition of the Kuningan area at the base of the mountain causes the area to be favored by tourists so that adequate road access is needed to facilitate these tourists. The number of tourists causes an increase in the volume of passing vehicles, which often causes traffic jams. Therefore, alternative roads are needed to overcome these problems.

The construction of the Cigancang road section aims to provide a safe road, for alternative roads on the Nanggaleng - Cirahayu road to make the road faster. Construction management analysis is the best technical means with limited resources to achieve the goals or objectives that have been determined in order to obtain optimum results in terms of performance, time, quality, and safety.

In a construction management, there are three outlines for the course of the project which include planning, scheduling, and project control. These activities are useful to control the resources on a project includes labour, equipment, materials, money, and methods.

To support construction planning of the Cigancang road, it is necessary to do the “**Construction Management Analysis of Cigancang Road Section Kuningan West Java**”. This analysis is expected to optimizing the performance of the project making it easier for contractors to make the decision.

1.2 Focus Issues

The focus of the problem that will be carried out is the construction management analysis of the Cigancang road section Kuningan West Java segment as a new alternative route in the methods of implementation, implementation schedule, and the Budget Plan.

1.3 Identification of The Problems

This thesis will pose the identification of the problems that will be carried out as follows:

- a. How to analyze the calculation of unit price analysis in Cigancang Road Section Kuningan?
- b. How to analyze the calculation of the development working volume in Cigancang Road Section Kuningan?
- c. How to analyze the Bill of Quantity (BOQ) generated in the construction of Cigancang Road Section Kuningan?
- d. How to analyze the scheduling preparation with Bar-Chart analysis methods, S-Curve, and Critical Path Method (CPM) in Cigancang Road Section Kuningan?
- e. How to analyze the network in Cigancang Road Section Kuningan?
- f. How to analyze the Cash Flow generated in the construction of Cigancang Road Section Kuningan?

1.4 Project Scope

1. Analysis of Volume of each work in the construction of Cigancang Road Section Kuningan
2. Analysis of Cost generated in the construction of Cigancang Road Section Kuningan
3. Analysis of Time or scheduling preparation in the construction of Cigancang Road Section Kuningan

1.5 Research Purposes

The aim of the research of the Construction Management Analysis of Cigancang Road Section Kuningan West Java as follows:

1. Plan in more detail regarding the planning of the Kuningan Cigancang road section if it will be implemented in the future
2. Further analysis of construction management after the planning of the Cigancang road section

1.6 Benefits of Analysis

1.6.1 Theoretical Usability

- a. Apply knowledge and theory about project management has studied the author during the lectures on the Civil Engineering Program Faculty of Engineering Universitas Swadaya Gunung Jati Cirebon.
- b. Obtaining more knowledge through reference research on project management.

1.6.2 Practical Usability

- a. Knowing the project execution method used in the construction of Cigancang Road Section Kuningan as an alternative road.

- b. Knowing the process of construction management analysis used in the construction of Cigancang Road Section Kuningan as an alternative road.

1.7 Writing Systematic

- a. **CHAPTER I, PRELIMINARY.** It will be explained in the background of research, focus issues, identification of the problems, research purposes, benefits of analysis, framework, research location, and the systematic of thesis writing.
- b. **CHAPTER II, LITERATURE REVIEW AND THEORETICAL BASIS.** It contains what the author learns from existing research which can provide references in writing this thesis, and the theory of the research used in the process of preparing this thesis.
- c. **CHAPTER III, METHOD OF ANALYSIS.** It contains a description of the research method used in the thesis preparation process, data analysis methods, data collection techniques, and the type of research data used.
- d. **CHAPTER IV, ANALYSIS AND DISCUSSION.** It contains descriptions of the results of data analysis research conducted with several research modes in the process of preparing this thesis.
- e. **CHAPTER V, CONCLUSION AND RECOMMENDATION.** It contains large conclusion from research activities and analysis during the process of writing this thesis. Also, suggestions from the author for evaluation during the preparation process.