

ABSTRACT

PT. Bina Rekacipta Utama is a consulting firm engaged in oil and natural gas, that specializes in the Planning. Behind the success story, PT. Bina Rekacipta Utama also has some failed in tender process to get the project. The failure of which are caused by errors in the company to estimate the cost of the project. One of the failures of PT. Bina Rekacipta Utama is in the bidding process conducted by Meddco E & P Indonesia in 2011 where the proposed deviated up to 30% from the value that created by owner.

The next project is Feed Study of Braced Monopod Wellhead Platform from Korea Development Co., Ltd. The project contains the several job-related task with the initial research planning of the platform construction, start from the beginning of the process until the platform stands. In a attempt to get the tender for this project, PT. Bina Rekacipta Utama plan to perform a better calculations estimating cost of the project and designing the project schedule to make sure the project running well. To generate the output according to the problems, the next step is developing a systematic problem-solving consists of five stages, namely the identification stage, the initial research stage, the stage of collecting and processing data, the analysis stage, and stage of conclusions and suggestins. Identification stage includes the formulation of problems and goals to be achieved. Initial research stage includes literature study and the study of objects.

Data collecting and processing stage starting from design Work Breakdown Structure (WBS) to describe all elements of work which will be calculated the unit price and duration for each activity. After calculations are complete, the next step is design the Precedence Diagram Method and Gantt Chart. Calculation the cost of project using the unit price and useful for designing Cost Baseline for this project, which are two alternatives that is scheduling an early start (ES) or by scheduling a late start (LS). The result of Cost Baseline will show how much the cost to be secreted company so it can be adjusted with the term of payment which will be formulated. Project Quality Assurance is also robeing identficated to guard the project output quality..

The conclution of this research is the cost that required in the implementation of this project is Rp. 1.324.900.000,- by the duration of the project for 183 days, or rounded into 30 weeks start from December 5th 2011 until August 15th 2012. According to the alternative designs of cost baseline based on early start scheduling, it would give benefits the company in terms of comfort for completing the project and the flexibily in managing the cost project.

Key words: Project Planning, Owner Estimate, The Unit Price Analysis, PDM, Early Start Time, Late Start Time and Cost Baseline.