THE ANALYSIS OF INVENTORY CONTROL METHOD ON CIPUTRA WORLD MALL DEVELOPMENT PROJECT

Student Name: Edy Brameld Manik
NRP: 3105100067
Department: Civil Engineering
Supervisor: Ir. Retno Indryani MS.

ABSTRACT

Ciputra World Mall development project needs a lot of material. To ensure the availability of these materials, it is necessary to control for each required materials. Control of this materials need some cost. Error in material inventory control will add to costs. The application of inventory control methods can be used to handle the problem of supplies. The purpose of this final project was to determine the inventory control method that provides economical total supply costs.

The preparation of this final project was done in several stages of research. Research methods will be performed include material data collection that used in the project and procurement plans undertaken by the contractor, determine the inventory control method that provides the economical theoretical total inventory cost lives, and in the future compared to the inventory control method applied in the field. Theoretical total inventory cost can be obtained by using traditional inventory control method such as economic order quantity (EOQ), lot for lot, fixed period requirements (FPR), and algorithm of Wagner and Within. Meanwhile, the total cost of project planning inventory based on data obtained in accordance with procurement plans that have been made by the contractor. Materials that will be modeled is material that has the greatest needs and the required volume at the latest.
From the analysis of the data are known, theoretical inventory control methods that provide economical total inventory cost for each modeling material is a method of Wagner and Within algorithm. This method also gives the economical cost lives rather than total inventory cost through planning project. This method provides savings of 6% of the total cost of inventories based on planning project.

**Key words**: Ciputra World Mall, inventory control methods, material supplies.