DESIGN AND IMPLEMENTATION OF PROJECT MANAGEMENT APPLICATION FOR NETWORK PLANNING AND DEVELOPMENT: CASE STUDY AT PT. TELKOM KANDATEL SURABAYA TIMUR

Siti Rochimah, Dewa Pribadi
Department of Informatics, Institut Teknologi Sepuluh Nopember Surabaya
siti@its-sby.edu, dewa.pribadi@gmail.com

Abstrak

Kata kunci: manajemen proyek, aplikasi manajemen proyek, inventori nol.

1. Introduction
PT Telkom Kandatel East Surabaya covers the area of East Surabaya, Sidoarjo, Mojokerto and Jombang. For each year, the company provides a specific amount of capital project budget for telecommunication planning and development projects in those areas. The company has an Access Design Division which responsible to perform a survey of the area being assigned for the project, to perform an initial assessment for the project value and the investment feasibility. Also, the division has the responsibility of controlling the project operation, and assessing whether the return of investment conforms its planning.

At present, whilst several process of network development project have already taken place using recent technologies, for example, e-auction and e-procurement, there are still a number of processes that are taken place using a traditional methods, instead of utilizing information technology. In addition, the data are still manually documented and thus require a great effort to rediscover the history data once it is needed, for example, during internal audits.

The network planning and construction processes are carried out in a zero inventory manner. It means that once the project is finished, all the resources have to be fully allocated to the project. Thus, none is kept in the inventory. The advantages of zero inventory will be described in the following sections.

2. Zero Inventory
PT. Telkom embraces the concept of zero inventory to perform the network planning and development [1]. This concept generally refers to the understanding of how to dispose of "junk" that is not required by the company.

Each item in the project will depreciate/ decrease in value with time. If the company stores an item that is not yet required at the moment, and the item gives no income to the company until the time expired, then this will be a loss for the company. It would be much better if the funds used to purchase the item are used for investment elsewhere.

According to Mc Gladrey [2], zero inventory refer to minimizing inventory and increase profit margins by eliminating the need for warehousing and other needs that follow. Also, according to George Brown [3], zero inventory mean that every product is made to be ordered and will be shipped promptly after its production.

3. The Planning Process
The network planning involve a new network construction, a network repair, or a network replacement. The planning process contains the following activities.
1. Building the plan,
2. Survey to the related field,
3. Designing the bill of quantity,
4. Scheduling,
5. Resuming the cost,
6. Building performance targets, and
7. Building justification as an initial approval of the network design.