

ABSTRACT

Procurement of goods or services is an activity as a medium that can meet a wide range of facilities for the sake of improving the business processes within a company. Conventionally procurement system that is applied in various large companies, particularly in the logistics, such as YPT has some basic flaws, including the lack of transparency, structuring documents, and wastage of time and cost. To improve existing business processes within the procurement processes in logistics of company, needed a logistic information system application that has been computerized and connected with access to internet as communication media.

This research aims at designing an application that allows administrator to manage the flow of the procurement process start from procurement filings, approvals, auctions, and price negotiation. The method used in designing this information systems applications is using the waterfall method, while in the process of procurement auctions with vendors is using AHP (Analytical Hierarchy Process) based on 4 criterias contained in designed application.

Based on the test results of the research design application, all menu functions contained in each user function is accordance with the expected output. While the analysis of test results for cycle time efficiency, gained an average of 176.42 minutes gap between existing procurement with procurement processes using application program. And for analysis results of application acceptance testing using questionnaires, gained yield ratio of 50:4 or 92.6% means this applications is valid or can be accepted and understood by the user.

With the development of this procurement application programs, the writer expects this application can be implemented in YPT, so that it can improve the performance of business processes, especially in the procurement logistics.

Keywords: information systems, logistics, procurement, waterfall method