ABSTRACT

This system development project presents the analysis and design of Sales and Inventory Information System in Spare Parts of Tractor of Bangkok Powerparts Co., Ltd. The project is developed to solve the problems of the errors in inventory and sales department. The objectives of this project are to reduce the error that is made by humans and generate the report to the manager.

The study of this project begins with the required definition and analysis of the existing system. Information system analysis and design tools such as context diagram, data flow diagrams, data dictionaries, and structure charts are used to analyze both the existing and proposed systems. Candidate solution matrix is also used to compare various alternatives in order to come with the most effective solution. Capital budgeting model such as the payback method, the cost-benefit ratio, and the net present value are used to evaluate the proposed system.

It was found out that the new computerized system is implemented using 100 Base-T LAN with 1 server, 4 client, and 3 printers. Software for the proposed system are Microsoft Windows XP, Microsoft Office XP, and Microsoft Visual Basic 6.0. Based upon payback method, it shows that the initial investment will pay for itself after 1 year and 6 months. In term of degree of achievement, the proposed system can process data about 3.5 times faster than the existing system.

To further improve the proposed system, it is recommended that a Web-based solution should be developed and implemented. This will allow users and customers to access the system more easily and faster.