

Paisan Wannakua 2006: Application of Internet Technology and Geographic Information System for Tha Maka Operation and Maintenance Project Changwat Kanchanaburi. Master of Engineering (Irrigation Engineering), Major Field: Irrigation Engineering, Department of Irrigation Engineering. Thesis Advisor: Mr. Parada Meeumphol, M.Eng. 146 pages. ISBN 974-16-1900-6

The main objective of the thesis is the application of internet technology and geographic information system for implementation of water operation of the Tha Maka operation and maintenance project, Changwat Kanchanaburi. According to the study, internet technology is used in presentation, data collection including receiving and sending data. Geographic information system application developed by the MapInfo Programme. That is used in collecting crop investment, hydrology, productivity and general information of the Tha Maka project, and the NAGA Programme is used in collecting data and illustrate area data in order to make a decision in planning of water operation of the Tha Maka Project.

The first result of the study is the Tha Maka Project webpage, that consist of present general information, communication through the webpage, collecting, receiving and sending daily information through webpage. The second is geographic information system that can illustrate area information of the Tha Maka Project. That is proved that the internet technology can be effectively used in collecting, receiving and sending daily data. Notifying that the data can be applied with the NAGA Programme to implement and illustrate daily operation system in every ditch. Moreover, NAGA Programme can be used to analyze and show the efficient information of the current operating system.

The study is scarified for the application of internet technology and geographic information system to help the operation to be much more easy and also safe for users in making decisions in planning and operating of the Project. I hopefully think that the thesis will be the best practice for other irrigation projects in the future.

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Thesis Advisor's signature

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