

CHAIRAT GAT-NGERN : THE ECONOMIC SCALE INVESTMENT OF WASTEWATER TREATMENT FOR TEXTILE INDUSTRIES. THESIS ADVISOR : ASSIS. PROF. SUTHAS RATANAKUAKANGWAN, BOONYONG LOHWONGWATANA. 205 PP.

This thesis is aimed to estimate the investment cost and the expense on the three Biological Processes (Pond, Aerated Lagoon and Activated Sludge) for the Textile Industries Wastewater Treatment with the emphasis on operation and maintenance. It, therefore, did the investment and the expense sampling on these three processes of the Textile Industries Wastewater Treatment in the central part of Thailand.

From the study, it is found that the investment cost (land, Construction and equipment costs) of the Wastewater Treatment Process will be proportional to the size of Wastewater Treatment Plant in acquiring BOP load (Kg BOD/day). For the expense in operation and maintenance of Wastewater Treatment Process can be the percentage of construction and equipment costs.

- Pond : approximately 100.68 - 8.52%
- Aerated Lagoon : approximately 73.2 - 46.44%
- Activated Sludge : approximately 14.88 - 11.40%