Chapter 6: Conclusion and Recommendation

6.1. Conclusions

The research result will be presented on three aspects in order to answer the research questions and fulfill the objectives of the research. The main aspects are presented as comparison between the requirement criteria and the real condition. Meanwhile, the economical feasibility aspect will be presented in calculation table of Net Present Value (NPV) and payback period.

The technical feasibility result shows that the technical conditions in Thiruvarur and Musiri comply with the technical requirements of the ZLUBR System. The social feasibility result shows that the social conditions of a new public technology. The economical feasibility result shows the Net Present Value above zero and the payback period less than ten years, therefore the project is economically feasible.

Therefore, the answer to the main research question is that ZLUBR System is technically, socially, and economically feasible to be implemented in Thiruvarur and Musiri. As for the objective, it is achieved because the research has found out that the ZLUBR System is feasible to be implemented in Thiruvarur and Musiri.

6.2. Recommendations

This leads to following recommendations:

1) Formulation of a detailed implementation plan

This report can be formulated to address issues that were not yet solved by the feasibility study in a form of a detailed implementation plan.

2) Approval of the implementation plan

After the detailed implementation plan has been made, it has to be approved before starting the implementation. The approval has to be from the Panchayat of Thiruvarur and Musiri as the owner of the system and the people of Thiruvarur and Musiri as the user groups.

3) Project set-up

The set-up of the project can be started after the owner agrees with the detailed implementation plan. The set-up will be organized by the local construction named Bio Energy System, Kerala, India together with BWDC as the local organization in Thiruvarur, SCOPE as the local organization in Musiri, and WASTE as the coordinator partner.

4) Role of BWDC and SCOPE

BWDC and SCOPE will assist the communication between WASTE with the the people of Thiruvarur and Musiri as the user groups, the Panchayat of Thiruvarur and Musiri as the owner, and the Bio Energy System in Kerala, India as the construction partner.

5) Role of WASTE

WASTE will supervise the project implementation. WASTE also assist the communication with other FINISH Institution.

6) Certified Emission Reduction

After the ZLUBR System is implemented, a CER application in collaboration with other biogas system in the whole India will be necessary. If the CER is approved, the government of India will receive more income. The panchayat in Thiruvarur and Musiri will also receive the share of the income from CER.