

CHAPTER VI

RECOMMENDATIONS FOR FUTURE WORKS

Although some useful data have been collected in this study. More works are needed to assess to improve the efficiency of up-flow pelletization process. Some recommendation for future works of up-flow pelletization process are summarized as follow:

1. Comparing the efficiency of pelletizer in terms of THM precursors removal by using various coagulant types such as alum, aluminium chloride, ferric chloride and so on. Coagulant type may be significantly influenced by such factors as the presence or absence of pH control, the anion added with the metal and metric of organic ions presented in the water being treated.
2. Considering the other factors that may affect the efficiency of pelletizer such as raw water quality, pH and temperature. For example, the effect of raw water quality, various raw water constituents, which usually very temporally can influence the coagulation of organic. These include turbidity, organic compounds, divalent cations, sulfate, and alkalinity.
3. Investigating the issue of coagulant recovery. The coagulant recovery can be not only saving in chemical costs but also reducing in sludge volume.