CHAPTER 3

OBJECTIVE OF THESIS

3.1 OBJECTIVES OF STUDY

i. To study the aspect of strength development and leaching for palm oil mill effluent (POME) sludge and simulated metals using cement-based stabilization and solidification (S/S) method.

ii. To study the effects of curing age to the strength development

iii. To study the influence of cement to dry sludge (C/S_d) ratio and water to cement (W/C) ratio on the strength development and leaching for POME sludge

iv. To investigate the effect of varying the concentration of simulated metals.

v. To find out whether the cement replacement material (CRM) can improve the strength of the solidified samples and decrease the amount of toxic metals released from the solidified POME sludge.