

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.