

CHAPTER VI

RECOMMENDATIONS

The following future activities or research would further enhance the development of performance-based design code for concrete structures in Indonesia:

1. Research on characteristic loading for housing and building in Indonesia. This research will provide the more accurate and specific loading characteristics to be used in structural reliability and verifications of performance of concrete structure. The aspect of risk for specific condition of Indonesia should be known and presented well for determination of safety performance index.
2. Research on serviceability and durability such as humidity, perspective of appearance, sensitivity to vibration and noise, alkalinity and chloride ion content and building functionality in Indonesia will be valuable on providing those variables in the performance-based concept. The limit state conditions and their verifications should be clarified.
3. It is needed to standardize the class of concrete in term of help controlling the allowable coefficient of variations for those standardized class. Survey on high strength concrete, high performance concrete, and prestressing steel also should be done to completing the data and for reliability analysis for structure using those materials, which is start to widely used in Indonesia.
4. The Code developer in Indonesia should always update the constraint, obstacle, and opportunity on developing Indonesian Standard Code to be performance-based. There is a big chance to support Asian Concrete Model Code and develop a code of practice based on ACMC for Indonesia.