CHAPTER 8

SCOPE OF FUTURE WORK

Reinforcement corrosion remains the most serious cause of deterioration of concrete structures, and thus reduced service life. The scope of this work is to increase the durability and service life of concrete structures exposed to corrosive environments by focusing on two issues:

1. Eliminate the reinforcement corrosion by examining the core of the problem, i.e. the reinforcement itself.
2. Overcoming the technical knowledge gap for application of steel reinforcement in concrete structures.
3. The effect of heat treatment on the nickel coated steel rebars. As the heat treatment process further stabilized the oxide formation the corrosion resistance properties may be still enhanced.
4. Percentage coating damage can be varied and similar studies can be conducted.
5. Test for abrasion resistance and salt spray test can be conducted for coated specimens.
6. Further study may be directed towards the long term period of exposure test like Macrocell, Accelerated, Open Circuit Potential test etc.