ACKNOWLEDGEMENT

I would like to express my heartfelt gratitude and sincere thanks to Dr. T. Meenambal, Professor (RD) Civil Engineering, for her valuable guidance, suggestions, views, continuous and constant support and encouragement throughout the period of this research work. I express my thanks to Dr. R. Sundararajan, Principal(Rtd), Government College of Technology, Coimbatore. And Dr. J. V. Ramasamy, Professor, PSG College of Technology, Coimbatore, for their comments and suggestions during the periodic doctoral committee meetings. I would like to express my thanks to Engineers of Hosur Municipal Corporation for providing necessary details throughout the period of this research.

I am very much grateful to Dr. G. Ranganath, Principal Dr. S. Sureshbabu, HOD, Dr. L. Yashodha professor, Department of Civil Engineering, the Management, Professors and Teaching, Non teaching and Staff of Adhiyamaan College of Engineering, Hosur for extending the available facilities to carry out the research work and affectionate help in carrying out the modeling studies.

I owe grateful to Dr. N. Ramesh, Professor, Department of Civil Engineering, K.S.R College of Technology, Thiruchengode and Dr. Lakshmipriya Thyagarajan, Asst. Professor Department of Biotechnology, Government College of Technology, Coimbatore for their kind co-operation and encouragement throughout my research work.

LAKSHMINARASIMAIAH N