ACKNOWLEDGEMENTS

The author is greatly indebted to Prof. B. Kotaiah, for his valuable guidance and encouragement throughout the course of this study. His generous assistance as well as helpful suggestions and the valuable comments he offered are sincerely appreciated. The author wishes to record that he considers himself to be fortunate to have worked under him. He, in fact, has been the source of inspiration for this work. But for his keen interest and enthusiasm, this work could have not been possible.

The author is indebted to Dr. T. Damodaram, Department of Environmental Sciences, S.V. University for his valuable suggestions in this work.

The author is highly thankful to Prof. P. Mallikarjuna, Head of the Department of Civil Engineering, Prof. B. Subramanyam, Prof. N.C. Eswar Reddy, the former Principals and Prof. K. Ravindranath, the Principal, S.V.U. College of Engineering for providing various facilities and for their kind words of encouragement during the course of work.

The author wishes to express his gratitude to his colleagues in the Dept. of Civil Engineering, Prof. A.V. Narasimha Rao, Prof. J. Karthikeyan, Prof. G.N. Pradeep Kumar, Prof. K. Nagendra Prasad, Sri K. Subramanyam, Dr. K. Mallikarjuna Rao, Dr. I.V. Ramana Reddy and Dr. M. Sri Murali for their moral support, words of encouragement and valuable suggestions at various stages of the work.

The author is deeply indebted to various organisations — (i) Forest Department, Sullurpet, (ii) Bird Sanctuary, Nelapattu, (iii) Fisheries Department, Sullurpet, (iv) ISRO, Srinagarikota, (v) Air Port Authority of India, Renigunta, (vi) District Collectorate, Nellore District, (vii) Agricultural Experimental Station, Sullurpet for providing baseline data which was used in the study.

The author is thankful to all the friends, relatives and well wishers for their help during the preparation of the thesis.

(D.V. SATYANARAYANA MURTHY)