ACKNOWLEDGEMENT

My sincere and heartfelt gratitude to Dr. R. Ramesh, Professor, Institute for Ocean Management, Anna University, Chennai and Director, National Centre for Sustainable Coastal Management, Ministry of Environment & Forests, Government of India, Anna University Campus, Chennai for his inspiring guidance, continuous support and constant encouragement without which this study could never have been completed. His positive approach and friendly attitude has motivated me to bring this research work to fruition.

I convey my heartfelt gratitude also to Prof. Dr. N. K. Ambujam, Director, Institute for Ocean Management, Anna University, Chennai rendering her valuable support.

I owe my deep sense of gratitude to Dr. L. Ajaykumar, Head, Department of Mining, Anna University, who inspired me to take up this research work and encouraged me to bring it to a logical end by regular enquiries, new ideas and innovative suggestions from time to time.

I am extremely grateful to Dr. Purvaja Ramachandran, Scientist ‘G’, Division Chair, Futuristic Research Division, National Centre for Sustainable Coastal Management, Ministry of Environment & Forests, Government of India, Anna University Campus, Chennai for her consistent help, support, guidance and creative help. I express my heartfelt gratitude to Dr. Ahana Lakshmi for her support, guidance and help extended during final editing of this dissertation.

I wish to place on record the valuable help provided by my colleague Mr. S. Chandrasekaran, in providing continuous help to me in compilation and
processing of voluminous research data. My special Thanks to Dr. Kumaraperumal, Scientist, TNAU for helping me in developing the GIS Maps and charts. I acknowledge the special and timely help rendered by Dr. Geethalakshmi and Dr. Lakshmanan, Scientist, TNAU in final editing of the research work. I acknowledge the help extended by Prof. Dr. K. Rajamani, TNAU, Mr. N. Ravisankar, Mr. G. Selvarajan and Mr. J. Ganesan, who helped me in data collection, formatting, final editing and printing of the thesis.

I wish to thank the help extended by me by Dr. R.M. Narayanan, Dr. R. Narayana Kumar, Ms. Mary Divya Suganya, Dr. B. Senthil Kumar, Mr. E. Nagenthiran and all the staff at the institution for Ocean Management, Anna University, Chennai, for their support and valuable input during my research work. I extend my hearty thanks to Dr. P.K. Suresh, Public Works Department for his encouragement and help extended in literature review.

I would like to thank Mr. Seenivasan and Ms. Indira Reddy, PERI Software, Chennai for continuous help and assistance in developing the Decision Support System. My special thanks to Ms. Umadevi and Mr. Umakant from IRDO, Cuddalore and Mr. Mani, District Coordinator, Nehru Yuva Kendra, Cuddalore for the assistance extended in field survey. I acknowledge the help and support extended by various officials of Cuddalore district in making the required data available and in conducting the field survey in a smooth manner.

I express many thanks to the Doctoral Committee Members Dr. D. Thirumalaivasan, Asst. Professor, Institute of Remote Sensing, Department of Civil Engineering, Dr. V. Kannan, former Officer-in-Charge, Environmental Survey Laboratory, BARC, Kalappam and Prof. Dr. K. Ilamparuthi, Head, Department of Civil Engineering, CEG Campus, Anna University, Chennai for their critical evaluation and creative suggestions. I am
extremely thankful to the Government of Tamil Nadu in permitting me to undertake this study.

I wish to extend my heartfelt thanks to my spouse Mrs. Bhavna, son Mr. Ayush and daughter Ms. Arushi for their love, encouragement and unfailing continuous support. Their invaluable companionship, warmth and strong faith in my capabilities have always helped me to remain committed to complete the research. Finally, the thesis would have never been in this shape without the kind blessings from my parents Mr. Krishna Gopal and Mrs. Sushma, who were a constant source of motivation at all time.

SANDEEP SAXENA