

## **ACKNOWLEDGEMENT**

First of all I express my deep sense of gratitude to God Almighty. For successfully realizing this work I owe my sincere gratitude to my research supervisor Dr. S. SELVARAJ, Assistant Professor, Department of Geology, National College Tiruchirappalli for his immaculate guidance and fruitful discussions, his positive spirit and creative attitude, for his endless energy and his universal outdoor skills, his constant stimulation on my research. I consider it a privilege to have enjoyed his guidance in an exceptionally pleasant and productive working atmosphere.

I embrace this opportunity to express my deep sense of gratitude to Dr. K. ANBARASU, Principal, National College, Tiruchirappalli who contributed substantially to the success of this study.

I express my deep sense of gratitude to the Professors of the Department of Geology, National College, Trihcy Dr. V. KUMAR (HOD), Dr. D. SRINIVASAN, Dr. V. SUBRAMANIAN, Mr. S. SIVAKUMAR, Dr. N. JAWAHAR RAJ and Dr. V. VASANTHAMOHAN, for their encouragement, support extended and constructive suggestions during the period of my research.

I express my deep sense of gratitude to another Doctoral Committee member Dr. N. RAVINDRAN, Professor, Department of Civil Engineering, SASTRA University, Thanjavur for the encouragement and support during the period of my research.

I wish to heartfelt thanks to the Research Scholars who helped me in many ways and uncompromising support during my field work.

My Special heartfelt thanks to my friend Dr. S. SUKUMAR, Assistant Professor, Department of Civil Engineering, Sivani Institute of Technology, Tiruchirappalli for his Brotherhood care, his support during the entire documentation and GIS work.

I have great pleasure in acknowledging to TWAD, PWD, Collectorate, CGWB and GSI, for providing the necessary relevant data.

I express my heartfelt thanks to Er. S. JOHNSON, Chief Engineer, Er. L. SUBRAMANIAN, Superintending Engineer, Mr. K. CHANDRASEKARAN. Deputy Hydrogeologist, TWAD Board and my colleagues of TWAD Board for their encouragement and uncompromising support during the entire work.

I also convey my thanks to Capt. M. ANBARASAN, State Port Officer and Er. G. RAVEE PRAGHASH, Executive Engineer, Tamil Nadu Maritime Board for their Brotherhood support, their positive spirit and constant encouragement during the entire work.

I also record my deepest and sincere thanks to my Mother Mrs. P.R.VASANTHA (Late) for his constant encouragement, emotional support and sacrifice so many weekends during my period of research, without their blessings and help I could not have completed my research work.

My Special thanks to my friend Mr. R. Robert Soosai Peter, Robert Xerox, Palayamkottai for his Brotherhood care for computer typing and finishing work of the thesis.

My sincere thanks to my uncle Mr. M. MANJAYAPPAUDAIYAR and my aunty Mrs. M. SELVAKUMARI and all my brother-in-laws and sister-in-laws for their moral and mental support during my study.

I would like to express my special thanks and gratitude go to my wife Mrs. M. SIVAGAMI and my son G. VASANTHAKUMAAR and my daughter G. PARISHMASHREE for their affectionate, enthusiasm, personal interest, sacrifice and highly co-operative to complete my research work.

Last but not the least, I would be failing in my duties, if I don't express my most gratitude to my dear father Mr. N. RENGASAMY and all my brothers, brother-in-laws and sisters, sister-in-laws and their children for their constant blessings, encouragement, emotional support during my period of research.

**R. GANAPATHI SUBRAMANIAN**