

ACKNOWLEDGEMENT

It is my proud privilege and pleasure to express my deep sense of gratitude and indebtedness to my research supervisor **Dr. M. Manivel**, Professor & Head (Retd.), Department of Geology, Bharathidasan University, without close support, encouragements and guidance, I could not have finished this study.

I am thankful to **Dr. K. Meena**, Vice - Chancellor, **Dr. S. Aruchamy**, Registrar i/c, and **Dr. A. Selvam**, Controller of Examinations Bharathidasan University, Tiruchirappalli for having given me encouragement to carry out this research work and other necessary administrative support.

I am extremely thankful to **Dr. A. Ganesh**, Director, University Informatics Centre, Professor and Chair, School of Geosciences, Bharathidasan University, **Dr. K. Kumaraswamy**, Professor and Head i/c, Department of Geography, Bharathidasan University, Tiruchirappalli for being helpful and fruitful tips about the research.

I am thankful to **Dr. S. Vasudevan**, Associate Professor and Head, Department of Geology, Bharathidasan University for his encouragement and support.

I owe a lot is to **Dr. K. Banukumar** Assistant Professor and Head, Department of Geography, Government Arts College (Autonomous) for their eruditeness, unencumbered, exemplary guidance, indefatigable strenuous efforts to steer the work in the right direction, bountiful scholarly advices, undiminishing zeal for extracting fruitful information and for his painstaking efforts to correct the manuscripts amidst their bustling schedules and My sincere and foremost gratitude is befittingly extended to **Dr. D. Yuvaraj**, Assistant Professor, Department of Geography, Government Arts College (Autonomous), Coimbatore for his support an encouragement during the course of this work.

My heartfelt thanks to **Dr. S. R. Nagarathinam**, Associate Professor and Head (Retd.) Department of Geography, Government Arts College (Autonomous), Coimbatore. **Dr. K. Sankar**, Associate Professor, Department of Industries and Earth

Sciences, Tamil University, Thanjavur, **Dr. R. Arthur James**, Assistant Professor, Department of Marine Science, Bharathidasan University, Tiruchirappalli for their consistent encouragement and critical suggestions about the research problem.

I extend my thanks to **Dr. P. Subramanian**, UGC – BSR Faculty, Department of Animal Science, Bharathidasan University, Tiruchirappalli, **Dr. P. Muthuveeran, IAS**, Director, Directorate of Handlooms and Textiles, Govt. of Tamil Nadu, Chennai, **Thiru. K. Karunanidhi**, Sub - Judge, Dindigul, Govt. of Tamil Nadu **Thiru. R. Murugan**, Chief Education Officer (CEO), Villupuram District, Govt. of Tamil Nadu for their morale boosting support during the course of this work.

I extend my gratitude to **Dr. M. Murugesan**, Associate Professor, (Rtd) Department of English, Bharathidasan University, Tiruchirappalli and **Dr. M. Angkayarkan Vinayaka Selvi**, Assistant Professor, Department of English, Bharathidasan University, Tiruchirappalli for providing support on linguistic appropriateness and grammatical corrections.

My profound gratitude and indebtedness to **Mr. T. Rabeendran**, Assistant Registrar, **Mr. T. Punniyamurthy**, Assistant Section Officer Legal Section, **Mr. A. Alagesan**, Assistant Section Officer, **Mr. R. Nandhakumar**, Assistant Section Officer, Bharathidasan University for their encouragement in completing this work.

I owe my sincere thanks to **Dr. T. Veeramani**, Associate Professor and Head, Department of Psychology, Government Arts College (Autonomous), Coimbatore. **Dr. M. Sakthivel**, Assistant Professor in Geography cum Director - Publications, University of Madras, Chennai, **Dr. R. Duraipandi**, Librarian, Academic Staff College, Jawaharlal Nehru University, New Delhi, **Dr. K. Suriyan**, Associate Professor cum Deputy Director, Centre for Study of Social Exclusion and Inclusive Policy, Bharathidasan University, **Dr. S. Sivaramakrishnan**, Assistant Professor, Department of Bio-Technology and Genetic Engineering, Bharathidasan University, and **Dr. M. Surulinathi**, Assistant Professor, Department of Library and Information Science, Bharathidasan University Tiruchirappalli for their kind help and encouragement during my research study.

I wish to thank **Dr. A. Muthukrishnan**, Professor and Head, Department of Civil Engineering, Prist University, Thanjavur for his cartographic assistance.

I owe a special gratitude to **Dr. S. Arunachalam**, Scientist, Data Center, National Remote Sensing Center (NRSC), Hyderabad, **Dr. C. Lakshumanan**, Assistant Professor, Centre for Remote Sensing, Bharathidasan University, **Dr. R. Sakthivel**, Assistant Professor, Department of Geology, Bharathidasan University, **Mr. R. Jegankumar**, **Mr. K. Balasubramani** and **Mr. P. Masilamani**, Assistant Professors, Department of Geography, Bharathidasan University for their constant encouragement and academic support.

I am equally indebted to Additional Directorate of Economics and Statistics, Director of Agricultural Statistics, **Chief Engineer** of State Ground and Surface Water Data Center (SG & SWRDC) PWD , Chennai, **Director**, Tamil Nadu Land use and Soil Survey organization, Thanjavur for their timely help by furnishing the required data and data products regarding my study.

I express my warm gratitude to **Mr. M. Panneerselvam**, **Mrs. M. Lokamani**, **Dr. P. Suseela**, **Mr. S. Saravankumar**, **Dr .P. Gunasekarn**, **Dr. R. Sunil Kumar**, **Mr. N. Saravanakumar** and **Mr. K. Sumesh**, Assistant Professors, Department of Geography, Government Arts College (Autonomous), Coimbatore for their support and suggestions, to carry out the entire study.

I am thankful to **Mr. N. Karunakaran**, Assistant Section Officer, **Mr. M. Ramasamy**, Lab Attender, Department of Geology, **Mr. K. Thirumoorthi**, Lab Attender, Department of Geography, Government Arts College (Autonomous), Coimbatore, **Mr. R. Karvannan**, Technical Officer, **Mr. S. Pandiyan**, Office Assistant, Department of Geography, Bharathidasan University, Tiruchirappalli for their help rendered during the course of my research work.

I would like to thank my friends **Dr. S. Sukumar**, Former Research Scholar, Department of Industries and Earth Sciences, Tamil University, Thanjavur, **Dr. A. Thirunavukkarasu**, Associate Professor and Head, Department of Civil Engineering, Tagore Institute of Engineering and Technology, Salem.

Dr. D. Balachandar, Mr. K. Kannadasan, Guest Lecturers, School of Geosciences, Bharathidasan University, **Dr. S. Vignesh, Dr. M. Deepasaraswathi**, Former Research Scholar, Department of Marine Science, Bharathidasan University, **V. Murali**, Research Scholar, Department of History, Bharathidasan University, **Mr. A. Panneerselvam, Mr. C. Bhuvaneswaan and Mr. P. Arumugam**, Research Scholars, Department of Geography, Bharathidasan University, **K. Yoganathan and M. Prabu**, M.Tech students, Department of Geology, Bharathidasan University, **T. Dhineshkumar** Research Scholar, Department of Marine Science, and **Mr. S.A. Shafi** for their valuable help throughout the study period.

I am deeply indebted to **Mrs. R. Thenmozil**, Assistant Head Master, Hindu Higher Secondary School, Watrap. **Dr. C. Chitra**, Assistant Professor, Department of Geography, Bharathiar University Arts and Science College, Gudalur, **Miss. S. Maha**, Research Scholar, Department of English, , Bharathidasan University for their abundant love and affection, moral encouragement and invaluable support during the period of my study.

I acknowledge the financial assistance provided by **Innovation in Science Pursuit for Inspired Research (INSPIRE)**, Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India, New Delhi.

I would like to express my gratitude to my beloved father **Thiru. C. Palanisamy** mother **Mrs. P. Veerammal**; brothers **Mr. P. Ganesan, Mr. P. Jayakumar, Mr. P. Vijayakumarr**; my family members **Dr. Balusamy Mr. M. Ayyavu, Mr. P. Jayaraj, Mr. P. Muniappan, Mr.V. Seenivasan, A. Indira, Mrs. B. Senthamil Selvi Mrs. P. Maheshwari, Mrs. M. Kaleeswari, Mrs. P. Bhavani, Mrs. K.Valarmathi** for their immense motivation, love and support during the entire course of my research work.

I owe my special word of thanks and gratitude to our **“Geo family”** and **all my friends** for their hospitality and unconditional help through out the tenure.

(P. ALAGURAJA)