ACKNOWLEDGEMENTS

I wish to express my profound sense of gratitude to Dr. I.V. Murali Krishna, Professor & Head, Centre for Spatial Information Technology, Institute of Science and Technology, J.N.T. University, a person with vision, dynamism and wisdom for his insightful and invaluable guidance, patient for bearance, personal interest and tolerant attitude. In fact, my gratefulness to him goes beyond the pages of this dissertation.

Grateful acknowledgements to Prof. Anjaneyulu, Director, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad for his constant help, advise, encouragement and guidance.

My heartfelt thanks are due to Dr. P. Kesava Rao, Assistant Professor, National Institute of Rural Development for unsealing cooperation and help.

I wish to express my sincere thanks to Dr. S. Srinivasulu, and Sri. J. Venkatesh, Associate Professors and Sri. T. Jaya Babu, Technical Assistant of Centre for Spatial Information Technology for their help, cooperation, encouragement and guidance.

I express my thanks to Dr. T. Saraswathi, Sri. V. Raman, and Sri. R.B.S.R. Prasad, Lecturers of Centre for Spatial Information Technology for their support and help.

I acknowledge my thanks to Mr. A. Rama Krishna, Mr. M. Muralidhar Raju, Mr. K.V. Phanindra Kumar, Mrs. A. Jyothi Srinivas, B. Suresh, P. Suresh and K. Rama of and other colleagues of Centre for Spatial Information Technology for their support and help.
I express my sincere thanks to Sri. C.J. Rama Raju, Assistant Registrar, Mr. Y.M. Viviyan, Mr. G. Sadanand, Smt. P. Manimala, Mr. M. Rajendra Babu, Mr. P. Siva Rao, Mr. G. Sailesh Kumar and other staff of Institute of Science and Technology for their help and support.

I am deeply indebted to my parents, family members and my friends Mr. N. Srinivasa Rao, Mr. K. Venkateshwara Rao and Mr. K. Hanumantha Rao for their constant encouragement and support.

I am grateful to all those who directly or indirectly helped me in bringing out this dissertation.

K.S.S. RAVI KUMAR