ACKNOWLEDGEMENTS

I have great pleasure with devotion and gratitude to acknowledge gratefully my sincere thanks to my Research Supervisor Prof. P. Balasiddamuni, M.Sc., Ph.D., F.S.S. (London), CHAIRMAN & BOS, Professor in Statistics, S.V. University, Tirupati for his basic plan of the work, his capacity to tackle the work at various levels, his aid extended to me with his apt suggestions and his constant encouragement in the development of this thesis work.

I gratefully acknowledge the valuable help of Prof. C. Subba Rami Reddy, M.Sc., Ph.D., F.S.S. (London), Department of Statistics, S.V. University, who has extended his co-operation in the form of his valuable suggestions for the progress of this thesis work.

I am highly thankful to Prof. M. P. Sastry, M.A., Ph.D., Founder Professor of Statistics, S.V. University, for the affection bestowed on me.

I owe immense debt of gratitude to Padma Vibhushan Prof. C. R. Rao, F.R.S., Sc.D., Eberly Professor of Statistics, Director, Centre for Multivariate Analysis, Pennsylvania State University, U.S.A., for his blessings on me.

It gives me an immense pleasure to thank Prof. S. Buddhudu, M.Sc., Ph.D., Professor and National Young Scientist Awardee in Physics, S.V. University, who extended his unstinted co-operation in framing this thesis.

My heartfelt gratefulness to Sri P. Kamalamma, Smt. P. Syamala Madam, P. Sri Vyshnavi and P. Srivardhan.

I express my deep thanks to Dr. Shaik Nafeez Umar, Statistical Analyst, Narayana Educational Institutions, Hyderabad, Dr. P. Venugopala Rao, Principal, Dr. A.E.R. Degree College, Tirupati, Dr. T. Ganga Ram, Lecturer in Statistics, S.V. Arts College, Tirupati, Dr. D. Giri, Lecturer in Statistics, S.V.A. Govt. College, Srikalahasti, Mr. B. Veera Raghava Reddy, Mr. A. K. Nagaraju, Mr. P. Harish Kumar, Research Scholars, Dept. of Statistics, S.V. University, Tirupati, Mr. G. Bhaskar Reddy, Smt. S.V. Selvi, Mr. S. Anand, Director, Manju Graphics, Tirupati and all my friends for their assistance in completing my research work successfully.

I would like to express my love and affection to my uncle Sri G. Siva Prasad, Sri A. Chandra Sekhar, Sri G. Mallikarjuna Babu, Sri G. Ramesh Babu brother Sri K. Sridher and sisters Smt. K. Hima, Smt. K. Madhu, Smt. K. Palasa, Smt. V. Aparna, K. Rajani, G. Sruthi, Nishitha for their moral support.

( K. ASHOK CHANDRA )