ACKNOWLEDGEMENTS

The entire thesis work has been carried out in the Department of Statistics, S.V. University, Tirupati, under the supervision of my beloved research guide and teacher Prof. P. BALASIDDAMUNI, M.Sc., Ph.D., F.S.S. (LONDON), Professor of Statistics, Chairman (BOS), S.V. University, Tirupati. I express my sense of gratitude to him for his constant encouragement and inspiring guidance offered to me throughout the progress of this thesis work.

I express my deep sense of gratitude and sincere thanks to my beloved teacher Prof. C. SUBBARAMI REDDY, M.Sc., Ph.D., F.S.S. (LONDON), Directorate Academic Affairs, Incharge Principal, C.M.P.S, Department of Statistics, S.V. University, for spending his precious time with me in discussing various typical problems relating to this study and for his kind co-operation.

I am extremely grateful to my beloved teacher Prof. M.P. SASTRY, M.A., Ph.D., Founder Professor of Statistics, S.V. University, Tirupati, for the affection he bestowed on me.
I am sincerely thankful to my teacher Prof. E. SATHYANARAYANA, M.A., M.Sc., Ph.D., Department of Statistics, S.V. University and Prof. K. V. S. SARMA, M.Sc., Ph.D., Department of Statistics, S.V. University, for their co-operation in my research work.

I am very much thankful to Prof. P. RAJASEKHARA REDDY, M.Sc., M.Phil., Ph.D., Prof. R. ABBAIAH, M.Sc., Ph.D., Head & Professor of Statistics, Prof. M. VENKATA RAMANAIAH, M.Sc., M.Phil., Ph.D., Professor of Statistics, Prof. M. SUBBARAYUDU, M.Sc., and Dr. M. BHUPATHI NAIDU, M.Sc., M.Phil., Ph.D., Assistant Professor of Statistics, Department of Statistics, S.V. University, Tirupati, for their encouragement throughout my research.

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

I would like to record my gratitude to all my M.Sc., Friends, Co-Research Scholars and Research Scholars of the other Departments.
My special thanks to Dr. Shaik Nafeez Umar, P. Hareesh Kumar and K. Ashok Chandra in the Department of Statistics, S.V. University, Tirupati.

I would like to say special thanks to Dr. K.V.N. Suresh Reddy, Dr. K.M. Sasikumar, C. Suresh, B. Anil Kumar Reddy, M. Anil Kumar Reddy, B. Parameswara Reddy, and remaining all my friends who are given their moral support for their co-operation in the accomplishment of the work.

I would like to express my love affection to my Brothers B. Vijaya Bhaskar Reddy, B. Veera Mohan Reddy, B. Prabhakar Reddy for enthusing me throughout the work.

Finally, a word of my sincere thanks to Srl. S. Anand Babu Computer Operator, MANJU GRAPHICS, Tirupati.

( B. VEERA RAGHAVA REDDY )