ACKNOWLEDGEMENTS

The research work for this Thesis was carried on at the Department of Statistics of the Maharaja Sayajirao University of Baroda under the guidance of Dr. N.M. Bhatt, M.Sc., LL.B., Ph.D. (Edin.), F.S.S., Professor and Head, Department of Statistics, Faculty of Science, M.S.University, Baroda (India).

It is with a deep sense of gratitude that I take this opportunity to acknowledge my indebtedness to Dr. N.M. Bhatt for his valuable guidance and help, which I constantly received from him in the course of the research work incorporated in this thesis.

I also express my sincere thanks to Dr. B.K. Shah, Lecturer in Statistics, M.S.University of Baroda; Dr. H.C. Gupta, Professor of Statistics, Delhi University; Dr. A.R. Kamat, Professor of Statistics, Gokhale Institute, Poona and Professor M.C. Chakrabarti, Head of Department of Statistics, Bombay University; for their valuable comments and suggestions.

My thanks are due to The Ministry of Scientific Research and Cultural Affairs, Government of India, New Delhi for awarding me Research Training Scholarship during the period of January 1963 to August 1966, which enabled me to carry out this research work at the Department of Statistics of M.S. University of Baroda and also to the authorities of the Maharaja Sayajirao University of Baroda.

BARODA: JANUARY 1969. P.H.DAVE