ACKNOWLEDGEMENT

I am greatly indebted to my Scholar teacher Dr. R. N. Rattihalli, Professor in Statistics, Department of Statistics, Shivaji University, Kolhapur for being a constant source of inspiration, for his invaluable guidance, insightful discussions, appropriate suggestions, continuous encouragement and being a pillar of support in completion of this research work.

My sincere gratitude to Prof. D. T. Shirke, Head, Department of Statistics, Shivaji University, Kolhapur for his valuable suggestions and timely appropriate guidance. My special thanks to Dr. (Mrs.) H. V. Kulkarni, Dr D. N. Kashid and Ms. A. T. Kamble for their Guidance, encouragement and co-operation during my research work.


I express my deep sense of gratitude to Honorable Secretary Shri. Jaykumarji Desai, Shikshan Prasarak Mandal, Kolhapur for continuous encouragement and granting permission to carry out this intellectual pursuit. I am also thankful to Shri. Nileshrao Desai, Shri. Daulatrao Desai and Ms. Manjiri Desai for their constant encouragement and support. I am grateful to Mr. S.D.Sathe, Principal and Mr. S.M.Muley, Vice-Principal, Gopal Krishna Gokhale College, Kolhapur for their extremely supportive cooperation.

Acknowledgement is gratefully made to the UGC, New Delhi for awarding fellowship under the faculty improvement programme.

My sincere thanks to Prof. P. N. Rathie, University of Brasilia,
Brasilia, Brazil for his valuable guidance.

My thanks are due to Hon. Vice-Chancellor and Registrar, Shivaji University, Kolhapur for providing me all possible facilities.

I would like to express my affectionate appreciation to my wife Bhavana, daughter Trupti and son Akshay for their constant support, care & concern and encouragement during this work.

My special gratitude to Dr. S. R. Rattihalli and Dr. U. B. Aithal for their encouragement and for being source of inspiration. My heart felt thanks to all my research colleagues, Dr. V.B. Ghute, Dr. C.S. Kakade, Mr. M.K. Patil, Dr. S.B. Mahadik, Mr. P. Y. Patil, Mr. H. S. Patil, Mr. Raghu Nath M., Mr. Sagar Patil, Mr. Sarjerao Powar, Mr. Bhushan Kambale for their help in programming and all other research discussions.

I owe a debt of thanks to my friends Mr. S.G. Dange, Mr. A.R. Patil, Mr. A.B. Patil, Mr. Jayant Patil, Dr. C.B. Pandit, Mr. S.S. Desai, Mr. T.S. Thorat, Mr. T.B. Adsul and Mrs. N. C. Gyal who have directly or indirectly helped and encouraged me throughout my research work.

I am also thankful to Mr. S.B. Salokhe, Miss. Kumbhar Seema, Mr. D. D. Dinde, and Mr. A. B. Taral for their kind co-operation throughout my research tenure.

I thank each and everyone who have helped me directly or indirectly to complete this research work.

Above all, I must thank the ALMIGHTY without whose grace, nothing is possible for me.

Place: Kolhapur

Date: 30 - 06 - 2009

Mr. Basugade Arun Nivrutti