ACKNOWLEDGEMENT

I respectfully and gratefully acknowledge my heartfelt appreciation and deep sense of gratitude to Dr C.S.Narke my guide and mentor, for his keen interest, encouragement, valuable guidance and never failing cooperation throughout the course of this work and discussions presented herein.

I thank profusely Dr M.S.Chandrasekhararaj, Scientist, B.A.R.C. Bombay for his timely advise, guidance, valuable suggestions and cooperation during the course of my stay at Bombay for my research work.

I also thank Dr V.V.Badiger, Dr A.S.R.Murthy, and Dr M.Madaiah of the Department of Chemistry Karnataka University and the authorities of the Karnataka University for providing me the laboratory facilities to carry-out the present investigations in the department of chemistry.

I am highly indebted to H.H. Sri Vishweshateerth Swamiji of Pejawar Math, Udupi, the president, and revered Sri D.Veerendra Heggade, the Chairman, of the J.S.S Dharwad for their kind blessings. I greatly acknowledge the constant encouragement and unfailing cooperation extended to me by our beloved Principal N.Vajrakumar throughout the course of the present study.

I am extremely grateful to Dr V.G.Kulkarni former Principal of J.S.S.Science College Dharwad, without whose help and encouraging words, I would not have been what I am today.
I thank my esteemed colleagues Prof. V.G. Gokhale, Dr. S.N. Ashtaputre, Dr. S.S. Hanumantgad, Dr. V.L.R. Goudar, Profs. R.G. Joshi, V.B. Patil, and D.V. Hegade for their help and co-operation. My special thanks are due to Dr. Y.P. Vyasamudra, & Dr. B.V. Math for their kind assistance, helpful discussions and constructive criticisms, during the preparation of this thesis.

My special thanks are also due to Dr. S.H. Ritti, Dr. M.I. Savadatti, Prin. G.V. Ajjappa, Prof. R.K. Koppar, Dr. V.C. Chavadi, Prin. R.S. Salimath, Dr. J.R. Raju, Dr. M.R. Bhavikatti Prof. V.N. Sangolli, Prof. (Mrs) B.H. Patil for their kind help and co-operation at various stages of the present work.

My thanks are due specially to Smt. Sumangalamma Chandrasekharalu, and Smt. Mahadevi Narke whose kind and motherly affection was a source of inspiration to me during course of present investigation.

My wife Smt. Bharati, and my sons, Sanjay and Ajay, deserve special appreciation for their utmost co-operation timely assistance and inspiring encouragement.

I gratefully acknowledge the help & co-operation of the Staff of Karnataka University workshop and USIC. Last but not the least I thank Smt. Jaya Hegade and Kum. Asha Katira for their neat and efficient typing and xeroxing.

Finally, I wish to extend my sincere thanks all my well-wishers and relatives who have helped directly or indirectly in the completion of this thesis.

Dharwad

(M.B. Hoskeri)