Acknowledgements

This thesis of mine was possible due to the incessant prayers, guidance, support, co-operation, assistance, encouragement and good wishes of many people to whom I owe a great debt of gratitude.

This moment would never have been realized, without the blessings, guidance and support of my beloved parents Thippeshappa and Susheelamma and my lovely sister Shilpa.

I am immensely pleased to place on record my gratitude to my research Supervisor, Dr. Y. Arthoba Nayaka, Associate Professor, Department of Chemistry, Kuvempu University, Shankaraghatta, for his invaluable, meticulous and untiring guidance, moral support, advice and constant encouragement.

I avail this opportunity to thank my beloved teachers, Prof. P. Vasudeva Nayak, Prof V. P. Vaidya, Prof. J. Keshavayya, Prof T.V. Venkatesha and Dr. K.M. Mahadevan, Department of Chemistry, Kuvempu University, Shankaraghatta, for their encouragement.

I thank Prof. Rajeshwar Achur and his group members, Department of Biochemistry, Kuvempu University, Shankaraghatta, for their support.

I owe my special thanks and respect to all my Teachers who taught me in my primary schooling, whose blessings and encouraging words made me to move on.

Huge thanks are given to my beloved husband Harish, my mother-in-law Mrs. Shakunthala Kotresh Nimbegondi, and my brothers-in-law Prasanna and Suresh, for their unconditional support, understanding, encouragement and blessings.

It would be incomplete if I do not thank all my Friends, colleagues, research colleagues for their constructive comments, encouragement and invaluable support.

I would like to express my heartfelt thanks to non-teaching staff of Chemistry department, Library staff of Kuvempu University and UGC, New Delhi, for their help during the course of my research work.

Sheela...