ACKNOWLEDGEMENT

Words are inadequate to express my feelings while recording my deep sense of gratitude and respect to my guide Dr. Uday V. Desai. The work presented here could not have been accomplished without his inspiring guidance, constructive criticism and sustained encouragement during the course of my research programme. I am grateful for his teaching and guidance. I have always admired him and learned the qualities and thoughtfulness, innovation and perseverance in his company.

I offer my humble and sincere thanks to Dr. P. P. Wadgaonkar, N.C.L. Pune and Prof. R. B. Mane for their guidance, earnest suggestions and encouragement during this work.

I take this opportunity to thank Hon'ble vice-chancellor, Dr. M. M. Salunkhe and Prof. M. B. Deshmukh, Head, Department of Chemistry, Shivaji University, Kolhapur for providing necessary facilities and encouragement.

I express my sincere thanks to Dr. G. S. Gokavi, Dr. P. N. Bhosale, Prof. S. R. Patil, Dr. D. M. Pore, Dr. (Mrs.) R. S. Salunkhe, Dr. (Mrs.) N. P. Hilage, and other teaching and non-teaching staff of the Chemistry Department, Shivaji University, Kolhapur, for their encouragement and co-operation.

My special thanks are due to my laboratory colleagues Mr. T.S. Thopte, Mr. B.V. Tamhankar and Dr. P.P. Kulkarni for their friendly help, cheerful cooperation and encouragement throughout this work.

I am thankful to Mr. Ranjit Shinde and Mr. Hasurkar, P.G. BUTR Section, Shivaji University, Kolhapur for their kind co-operation.

I take this opportunity to offer my deep sense of gratitude and heartiest thanks to Prin. Dr. A.N. Jagtap and Mr. Abhaykumar Salunkhe, Secretary, Shri Swami Vivekanand Shikshan Sanstha, who encouraged me for successful completion of the research work.

I am thankful to Dr. P.S. Patil, Head, Department of Chemistry, Mrs. J.J. Salunkhe and my colleagues in Chemistry Department, teaching and non-teaching staff of Vivekanand College, Kolhapur for their co-operation.

I am thankful to Dr. J.G. Deshmukh, Ex-Head, Department of Chemistry, Vivekanand College, Kolhapur for his keen interest and constant

encouragement during the research period.

My deepest thanks and appreciations are reserved for my mother Sou. Mangal and my father Shri Hanmantrao Patil and brothers Suhas and Surendra. I express my deep sense of gratitude to my in laws Sou. Aruna and Shri Babasaheb Mohite. My acknowledgement will be incomplete if I do not express my deep sense of gratitude to my husband Shri Ajitkumar Mohite, daughter Aishwarya and son Siddhant who are the real sources of my

encouragement.

I am grateful to all my friends and well wishers for their whole hearted support during present investigation. I also record my sincere thanks to all those, who helped me directly or indirectly during the research work.

Place: Kolhapur

Surekha A. Mohite

Date: 28/12 / 2005