ACKNOWLEDGEMENT

It gives me a great pleasure to express my deep sense of gratitude to my guide Dr.S.V.Lonikar, Reader, Department of Chemistry, Shivaji University, Centre for Post Graduate Studies, Solapur for his able guidance, constant encouragement, discussions, understanding as well as patience during the course of the work.

I am also thankful to Dr.N.N.Maldar, Prof.and Head, Department of Chemistry, Shivaji University, Centre for P.G. Studies, Solapur for his cooperation during this work. I am also greatful to Dr.P.G.More for helpful discussions.

I am deeply indebted to the authorities of Yogeshwari Shikshan Sanstha, Ambajogai and Dr. A.C.Choudhari, Principal, Yogeshwari Mahavidyalaya, Ambajogai for granting me study leave as teacher fellow under 8 th U.G.C.plan and timely help. I am indeed thankful Shri.P.L.Deshmukh, Head, Department of Chemistry, Y.M.A. for his timely help.

I would like to thank all the members of laboratory, library and office staff of the P.G.Centre, Solapur for their cooperation.

My sincere thanks are also extended to Mr. Vasi Shaikh, Mr. V.G. Alli for their constant help and for going through the manuscript. I am also thankful to Mr. M.D. Joshi, Mr. P.H. Basutkar, Mr. V.P. Ubale, Mr. C.D. Jadge and all other

colleagues for their cooperation.

My deepest thanks and appreciations are reserved for my father-in-law, mother-in-law, my children and family members for their encouragement and help in every respect during my study. I offer my hearty thanks to my husband Mr. Sateesh Ghate for his kind understanding and constant encouragement due to which I could do my work leisurely.

Date: 29/6/95

Place: Solapur.

(Kamal J. Deshpande)