ACKNOWLEDGEMENT

It gives me immense pleasure to express my sincere gratitude to my research guide Dr. P. S. Mane, Associate Professor, Department of Chemistry and Industrial Chemistry, Shri Chhatrapati Shivaji College Omerga, for his valuable guidance and constant encouragement time to time during the progress of this work. Without his inspiration and helpful comments this work could not be possible, I shall ever remain thankful to him.

I am sincerely thanks to Prof. Dr. T. K Chondhakar Department of Chemistry and Prof. Dr. B. R. Arbad, Head, Department of Chemistry, Dr. B. A. Marathwada University, Aurangabad, for their moral support and cooperation whenever necessary.

I am also thankful to Dr. N. D. Shinde, Principal and Dr. V. S. Ingle Head, Department of Chemistry, Shri Chhatrapati Shivaji College Omerga, for providing me Laboratory facilities to do research.

I am especially thankful to my research colleagues Dr. S. M. Salunke and Dr. B. S. More, Adarsh College, Omerga, for their immense help, keen interest and encouragement during the work.

I am also thankful to Dr. J. S. Diggikar, Dr. S. D. Salunke, Dr. C. W. Swami Dr. V. S. Suryawanshi, Dr. V. N. Patange, Dr. A. S. Padampalley, Miss. A. G. Siddiqui, Dr. Sachin Kulkarni, Dr. V. D. Mote for extending helping hands whenever I required.

I would like to extend my deep sense of gratitude to Hon. President, Shri. Laxaminarayan Lahoti and Hon. Secretary, Shri. Rameshchandra Biyani and all members of the management, Dayanand Education Society Latur.

I am grateful to Principal Dr. J. S. Dargad, Dayanand Science College Latur, Y. P. Sarnikar, Head, Dept. of chemistry, Shri J. A. Angulwar, S. N. Ibatte, R. S. Shinde, Miss. N. S. Korde, N. A. Kedar, R. K. Jadhav, R. V. Suryawanshi, C. M. Walmiki, Miss. K. R. Pawale and all Teaching and non teaching staff of Dayanand Science College Latur, for their moral support during the work.
I am also thankful to Smt. Prabhavati Mane, Sow Rajashri Mane, Rajdeep, Rajnandini and Rajlaxmi for their constant encouragement during this work.

I would like to devote my heartiest thanks to my mother Smt. Rukhminibai Marutirao Chougule, and father Late Marutirao Jetingrao Chougule, brother Prabhakar and Asha, Sushil, Sital and my sisters Prematai, Anuradhai, Kaveritai and brother in law late Motiram Narayankar, shri Govind Choudhri, Dr. Sambhaji Kawale and all other family members. I express my sincere appreciation and thanks to my wife Sow Sunita for her kind patience during the work. I am also thankful to my daughter Snehal and loving son Shrikant for keeping patience during this work.

I also thankful to all who cooperate me during the completion of Research work.

A. M. Chougule

(Asst. Professor)

Dayanand Science College Latur.