

A C K N O W L E D G E M E N T

It gives me a great pleasure in expressing my deep sense of gratitude to **Dr. P.N. Bhosale**, Lecturer in Inorganic Chemistry, Department of Chemistry, Shivaji University, Kolhapur for his valuable guidance and encouragement throughout the work.

I have received valuable help and encouragement in my work from **Prof. M.B. Chavan** which I acknowledge with gratitude.

I wish to express my deep felt gratitude to **Prof. R.B. Mane**, Head, Department of Chemistry for his valuable help, advice and facilities provided for this piece of work.

I would like to record my thanks to **Dr. P.P. Hankare** and **Dr. M.A. Anuse** and my teachers of the Department, who have extended helping hands when and where I needed.

It is my duty to acknowledge the U.G.C. New Delhi, for the financial support given; as well as the authorities of Shivaji University, Kolhapur for the initiative support given, without which the work could not have been completed.

It is also gratifying to express my special thanks to the authorities of Shri Shivaji Education Society's, Kandhar and **Principal Mr. M.V. Shendge**, Shri Shivaji College of Arts, Commerce and Science, Kandhar, District Nanded; for granting

me study leave for one year, and giving me opportunity for completing M.Phil. course.

I am also indebted to all my research colleagues of the Chemistry Department as well as the Staff of U.S.I.C. and C.F.C. of Shivaji University, Kolhapur for their grand cooperation and good wishes.

I shall be failing in my duty if I do not express my deep sense of gratitude to my **Parents**, my wife **Mrs. Anjali B. Raut** who have encouraged me and helped me a lot during the tenure of this work.

Last but not least I would like to express my appreciation to **Mr. Mohite R.V.** and **Mr. Rawan** for efficient typing and tracing of this thesis.


Shri B. N. Raut