

## **ACKNOWLEDGEMENT**

*I consider it most proper & timely to express my gratitude for the scholars, dignitaries, friends & my parents who have contributed a great deal to complete successfully this research work. I would express my gratitude from the core of heart to my guide **Dr. A. R. Raut**, Reader in Chemistry, Govt. Vidarbha Institute of Science & Humanities, Amravati for his valuable guidance. I received his all-round guidance in the perception of the problem, profundity of it, strategy of the experimental work & interpretation of the results. Without his support, I can't imagine completion of this work. I indebted to him for his time to time suggestions in the preparation of this thesis.*

*My sincere thanks are to **Dr. T. H. Mhaske**, **Dr. M. L. Narwade**, **Dr. K. N. Wadodkar**, **Dr. A. S. Aswar** Head, Deptt. of Chemistry, Sant Gadge Baba Amravati University, Amravati for the inspiration, constant encouragement, & the expert guidance they have provided. Their timely suggestions are the most valuable contributions in the completion of this research.*

*I am much thankful to **Dr. Mrs. P. Y. Bhogaonkar** Director, Govt. Vidarbha Institute of Science & Humanities, Amravati, **Dr. Mrs. S. A. Ghosh**, Ex-Director & **Prof. R. D. Satpute**, Head, Department of Chemistry, Govt. Vidarbha Institute of Science & Humanities, Amravati for providing all the necessary facilities at every point of time during my research.*

*It is my pleasure to acknowledge the cooperation of **Dr. M. M. Chincholkar**, **Dr. V. S. Jamode**, **Dr. B. G. Khobragade**, **Dr. A. G. Doshi**, **Dr. S. G. Bhadange**, **Dr. B. N. Berad**, **Prof. V. D. Thakare**, **Dr. S. K. Rithe**, **Dr. V. M. Raut**, **Prof Mrs. S. M. Bombatkar**, **Dr. M. P. Wadekar**, **Prof. R. G. Shinde** & **Prof. G. H. Murhekar**. Their studious discussions have benefited me greatly to derive the material & set the direction of my research, throughout the course of study.*

*I most appreciate the cooperation given by my friend & research colleague **Mr. A. T. Rajguru** who has honestly helped me & given valuable cooperation for my research work. I am also thankful to my research colleagues **Prof. V. W. Banewar, Ku. M. P. Raut, Mr. P. Jamkar** & other members of research group for creating a friendly & academic active atmosphere. I also thank to my friends **Prof. R. P. Thakare & Mr. D. R. Zatale** for their sincere cooperation & encouragement during my research work.*

*I take this opportunity to thank **Mrs. Sushma Raut, Ku. Snehal, Ku. Vishakha** & '**Gotu**' for their generosity & invaluable cooperation during my writing work.*

*I am thankful to all the non-teaching staff members, Deptt. of Chemistry, Govt. Vidarbha Institute of Science & Humanities, Amravati for their cooperation during research work.*

*Words fail short to express my gratitude towards my father **Prin. Vinayakrao Bhamburkar** & mother **Mrs. Snehlata Bhamburkar** for their blessings, moral support, encouragement patience & understanding towards me.*

*I am greatly thankful to **Mr. Umesh Kanerkar**, Oasis Computers for punctuality, accuracy & keeping patience during typing this thesis.*

*Last but not least I am thankful to those who helped & encouraged me directly or indirectly during my research work.*

**Place : Amravati**

**Date : 28/04/07.**

**Nilay V. Bhamburkar**