

## ACKNOWLEDGEMENTS

*I find it difficult for me to write something in short to acknowledge my research guide, Dr. G. S. Gokavi. He has taught me to think, and solve the unconventional problems in a conventional way. His constant inspiration, invaluable guidance and constructive criticism helped a lot to focus my views in the proper perspective. I take this opportunity to express my deepest sense of gratitude and reverence towards him for guiding me in the right direction throughout the course of this work. My deep personal regards are due for him forever.*

*My grateful thanks are due to Prof. K. J. Patil for his constant encouragement both in professional as well as in personal level.*

*I remain immensely thankful to Prof. M.B. Deshmukh, Head, Department of Chemistry, I am grateful to Prof. P. P. Hankare for his constant encouragement.*

*I am thankful to Prof. S. R. Patil, Prof. M. A. Anuse, Dr. P. N. Bhosale, Dr. U.V. Desai and Dr. D. H. Dhadage for their continuous encouragement and hearty co-operation.*

*I am also thankful to the members of teaching and nonteaching staff of Chemistry Department for their kind co-operation.*

*I am indeed grateful to my parents, brother, sister my bhabhi and Shri. N. A. Attigeri for their love, unfailing support, tremendous patience, trust and encouragement during many years of studies that they have shown to me in their own special way. They have been my constant source of strength and determination, and have brought a great deal of happiness to my life.*

*I believe, it is my pleasant duty to offer thanks to Late Dr. R. Rangarajan, Deputy Director, CSMCRI, Bhavanagar, Dr. S. B. Halligudi, Mr. G. V. Shanbag, NCL, Pune, Dr. S. G. Kumbhar, University of Virginia (USA), Dr. B. S. Nagaralli,*

*University of Gent, Belgium, Dr. Ganesh. Alawandi, Miss. Uma. B. Karadge, University of Michigan (USA), Dr. Shinge, Dr. Hunnar, Mr. R. K. Nagarale, CSMCRI, Bhavanagar, Mr. Lokesh. Pawar, Mr. lokesh. Shastri, Mr. Shivshankar, Mr. Chinna, Mr. Latte, Mr. Vaibhav. Kulkarni and other friends of Dharwad, Mr. Parsuram. Hombal and friends, Dr. A. S. Kulkarni, Dr. S. R. Yankanchi, Dr. B.D. Bhosale, Mr. D. S. Rajmane, Mr. V. A. Kalantre, Mr. Raju. Teli, Mr. Rahul. Kolhapurkar, Mr. Santosh. Terdale, Mr. Vilas. Ravat, IIT, Bombay, Mr. R. R. Kumbhar, Mr. S. K. Kushare, Mr. Girish Ghugare, Mr. Jyotiram. Chougale, Mr. Sandip. Mahamuni, Mr. C. P. Mane, Mr. Ankush. Sargar, Mr. Sanjay. Jirge, Mr. Umesh. Padalkar, Mr. Rajaram. Kambhale, Mr. Sunil. Desai, Mr. Prashant. Devkar, Mr. Santosh. Madhale, Mr. M. B. Mulimani, Mr. S. N. Patil and other friends of Botany, Zoology, Physics, AGPM and Biochemistry for their help.*

*I would like to confess that even though I try my best, it is not possible for me to acknowledge and thank all those known and unknown faces individually for their direct and indirect contribution for the successful completion of this work. I am grateful to all of you for your kind cooperation.*

*I take this opportunity to thank University Grants Commission, New Delhi for my Project Fellowship and financial assistance*

*Finally, I am very much thankful to all those who have assisted me directly and indirectly in the completion of this thesis.*

*Sanjeev. P. Maradur*