ACKNOWLEDGEMENT

- I express sincere gratitude and extensive devotion to my guide and revered "guru" Dr. S. V. Kuberkar, Reader and Head, Department of Chemistry, Yeshwant Mahavidyalaya, Nanded for inspiration, valuable advice, constant encouragement and sharp vigilance received from him throughout the research work. I am indebted to him forever.

- I owe my sincere thanks to the Chairman and Secretary, Shri Sharda Bhavan Education Society, Nanded for granting permission for research work.

- I express my gratefulness to Hon. Principal, Dr. N.V. Kalyankar, Yeshwant Mahavidyalaya, Nanded for providing necessary laboratory facilities during the research work.

- I also extend my thanks to Dr. Y.B. Vbhute, Dr. V. M. Gurav and all the dignified academicians of the Department of Chemistry, Yeshwant Mahavidyalaya, Nanded for their kind co-operation throughout the work.

- I wish to express sincere thanks to Dr. K. G. Apte, National Toxicological Centre, Pune for providing required animals needed for the pharmacological screening.

- I must thank Dr. U. D. Deshpande, Reader, School of the Life Sciences, S.R.T.M.U., Nanded, who put his considerable experience and wisdom at my disposal in the final stages of this thesis.

- I also express my whole-hearted thanks to Dr. D. B. Shinde (Head of Department), Shri. P. S. Wakte, Department of Chemical Technology, Dr. B. A. Marathwada University, Aurangabad for providing facilities to carry out pharmacological screening of the newly synthesized compounds. Also thanks to Shri A. Angadi, Yash College of Pharmacy, Aurangabad and Shri. Hemant Une, Y. B. Chavan College of Pharmacy, Aurangabad for their technical support in these studies. Their dynamic co-operation and untiring support contributed substantially to the quality of research work.

- I am also thankful to the Director, Indian Institute of Chemical Technology, Hyderabad for providing facilities for spectral analysis.

- I am also grateful to the Librarian of National Chemical Laboratory, Pune for the co-operation in providing me facilities for the literature survey.

- I am indebted to Dr. V. K. Mourya, Principal, Government College of Pharmacy, Aurangabad for his best wishes and constant encouragement from time to time during the research work.
I strongly desire to express my sincere gratitude to Prof. R. P. Marathe and Dr. P. K. Puranik, Government College of Pharmacy, Aurangabad whose valuable support and extensive co-operation led to the successful completion of this research work.

I am grateful to Shri S. M. Vadvalkar, Principal, Shri. Pekamwar and Shri Sangamwar, Nanded Pharmacy College for their timely co-operation.

It is a pleasure to be able to record my gratitude to Dr. Mrs. C. G. Kulkarni, Government College of Pharmacy, Aurangabad for her best wishes and moral support throughout this work.

I must make special mention of Shri. R. B. Nawale, Dr. Smt. S. R. Shahi, Dr. V. G. Somani and Shri P. B. Shamkuwar, Government College of Pharmacy, Aurangabad for their valuable support.

I cannot forget to thank Dr. J. S. Jadhav, Dr. K. G. Baheti, Dr. Mrs. Sulbha Kapratwar, Dr. A. T. Suryawanshi, Shri. S. P. Vartale, Shri V. N. Bhosale, Shri S. G. Badne and Mrs. Labshetwar for their friendly co-operation.

I remain grateful to Mrs. S. S. Kuberkar forever, for her moral and personal support during the research work.

I am thankful to Barad brothers, Unique Computers, Chikhalwadi, Nanded for excellent work of thesis in short time.

No words are enough to express heartiest gratitude to my husband, Shri. Ajay Kale and daughter Isha for their patience, good understanding and encouragement, which played an important role to complete this work successfully.

I am indebted to my Father, Dr. S. S. Pingle, Mother, Mrs. V. S. Pingle, Father-in-law Shri. A. G. Kale and family for helping me travel this journey to a successful destination.

Lastly, I would like to acknowledge sincere thanks to my superiors, colleagues, friends and students attached to various Institutes, University Departments, Analytical Laboratories who directly or indirectly helped me throughout this research work.

Mrs. Mayura S. Pingle (Kale)