ACKNOWLEDGEMENT

With utmost pleasure and privilege I am endeavouring to express my sincere thanks and gratitude to Dr. D.S. Bhakuni, Ph.D.,D.Sc.(London), FNA, Emeritus Scientist, Medicinal Chemistry Division, Central Drug Research Institute, Lucknow for his able guidance, keen interest, valuable suggestions and constant encouragement during the course of these studies.

I wish to express my deep sense of gratitude to Prof. Shafiullah, Department of Chemistry, Aligarh Muslim University, Aligarh, who as my teacher and supervisor, has been a source of constant guidance and encouragement during the course of these studies.

I wish to express my gratitude to Dr. Ram Pratap, Scientist, Medicinal Chemistry Division, Central Drug Research Institute, Lucknow, for his keen interest and many helpful discussions during the course of these studies.

I sincerely thank to Prof. B.N. Dhawan, FNA,FAMS, Director, Central Drug Research Institute, Lucknow, for providing me excellent library and laboratory facilities.
My grateful thanks are due to Drs. K. Avasthi, P.M.S. Chauhan, A. Hasan, R.P. Tripathi, Sunita Saluja and Anil Mishra for helpful suggestions in the course of the present study.

I also acknowledge the stimulating companionship and valuable cooperation of Shahid, Abrar, Nadeem, Kaptan Singh, Lalit and Deepa.

I deeply acknowledge the technical help and wonderful company of M/s. A.K. Sircar, K. Kumar, Shahabuddin and J.C. Rajan.

I am thankful to the staff of RSIC, Lucknow, for providing me spectral and elemental analysis data.

My thanks are also due to Mr. A.K. Kanal and Mr. V.K. Kanal for his excellent typing assistance.

Financial assistance from the Office of Naval Research, U.S.A. and the Council of Scientific and Industrial Research, New Delhi, India is gratefully acknowledged.

Lastly, I am thankful to my loving parents, my sisters Afsar Firdaus, Kishwar and Farha, brother Jawwad, my brother-in-law Mr. Adil Rizwan and all other relatives whose good wishes have always been an inspiration for me.

SHOEB IQBAL KHAN