ACKNOWLEDGEMENT

In the name of ALLAH who is most beneficent and merciful. At the very beginning I would like to pay million thanks to ALLAH who showered blessings on me and gave an opportunity and capability to complete this research work.

Emotions can not be adequately expressed in words because then emotions are transferred into formalities to be completed. My acknowledgements are many times more than what I am expressing here.

I take immense pleasure in expressing my sincere thanks and deepest sense of gratitude to honorable chairman of my advisory committee, Dr. B. B. Deshpande, Rd. Director of Extension, M.A.U., Parbhani for his valuable guidance, constructive criticism and sustained interest evinced in the preparation of this thesis.

I bear the absolute pleasure in expressing my extreme gratitude and indebtedness to all the members of my advisory committee viz, Dr. V.P. Vadlamudi, Professor & Head, Dept. of Pharmacology, Veterinary College, Durg(M.P.), Dr. A.G. Karpe, Asstt. Professor, Dept. of Microbiology, COVAS, Parbhani, Dr. S.D. Moregaonkar, Asso. Professor, Dept. of Pathology, COVAS, Udgir and Dr. S.B. Kawitkar, Technical Officer, MAFSU, Nagpur for suggesting this research work, talented and inspiring guidance, keen and uniring interest and encouragement throughout the course of present investigation.

Similarly I take immense pleasure in expressing my sincere thanks to Dr. P.S. Lonkar, University Head, Dept. of Pathology, Bombay Vety. College, Mumbai and Dr. G.B. Kulkarni, Professor, Dept. of Pathology, COVAS, Parbhani.
for their immaculate and indefatigable guidance and constructive criticism during my research work.

I am highly obliged to Dr. B.P. Dandge, ADP, COVAS, Udgir, Dr. M.B. Gujar, ADP, COVAS, Parbhani and Dr. A.P. Bhokre, ADP, BVC, Mumbai for providing necessary facilities for carrying out this research work.

I am gratefully obliged to Dr. M.I. Baig, Dr. Abdul A., Dr. A.U. Bhikant, Dr. N.Z. Gaikwad, Dr. N.M. Markandeya, Dr. I. R. Mugal, Dr. V.D. Aher, Dr. G.P. Bharkad, Dr. A.V. Bhoonsle and Dr. A.B. Chandri for providing intellectual stimulation, valuable suggestions and comments during my research programme.

My heartfelt thanks goes to my student friends for their constant co-operation and timely help particularly Dr. Phad, Dr. Deshmukh, Londe, Bharsih, Pawar, Dojde, Yerolkar, Niturs, Kusul and all others who helped me in completing this research work. I am also thankful to Mr. Akhil, Rajendra for their timely help.

My special thanks to Dr. S.G.R. Dairi, Munshi Imtiyaz, Laique Saberi and Momin Mujahid for their constant moral support, untiring efforts and timely help during my research work.

I will do injustice if do not express my heartiest thanks to my beloved friends specially Dr. Barkatullah, Dr. Iyong, Dr. Ismail, Dr. Mujahid and Dr. Quasar for their kind whole hearted co-operation encouragement and direct and indirect help throughout the study.

I have no words to express my feelings of love and affection to my father Niyaz Ali Khan and mother Sahiba Khatoon for their pathetic efforts, sacrifices,
encouragement and shadowing me by shouldering their back to sun in educating me at the cost of their comfort and consolation.

The attainment of present stage would never possible without the blessing warmly made by my elder brother Meraj Ali Khan, Aljaz Ali Khan, Fayaz Ali Khan and younger brothers Siraj, Mushtaq, Irshad, Naushad and all my bhathis.

I attributing love to my wife Qamar Sultana and my kids Ishtehaj, Asem. Tahooran and Mahvish for encouragement, warm greetings and their love and affection.

I express my sincere thanks to Dr. Manjunathan, Technical Officer, Vet carr, Bangalore for providing sponsorship for this Ph.D. project.

I also thankful to Mr. Sunder Tarse, G.R. Hedge and Khaleq, who proved their skill, special interest and efficiency in typing this thesis.

Finally, I extend my cordial thanks to all those who have been helpful to me sometimes or the other during period of this study.

Place : Parbhani

Date : 36-06-05

(Khan Minhaj Ali Niyaz Ali)