ACKNOWLEDGEMENT

WRITING OF doctoral thesis is by all means a herculean task. My entire efforts and the hours spent in the library and in the laboratory for the past approximately five years have materialized into this thesis. The pages that follow contain not only typed pages, tables and graphs but also my sweat, toil, tears, the blessings, suggestions and wishes of many people whom I cannot thank for want of space. I am experiencing a melting of the heart and deep peace as these words enfold.

The foremost name that comes to my mind and the major share of the credit goes to my guide Dr. Sanjay K. Jain, who with his adept guidance and limitless patience alleviated all problems associated with the work. His encouragement, suggestions and healthy criticism is difficult to describe in few words. I bow my head to his feet and express my sincere pranam.

I am grateful to Prof. N. K. Jain and Prof. V. K. Dixit, head and former head of Department of Pharmaceutical Sciences, Dr. H. S. Gour Vishwavidyalaya, Sagar, who was kind enough to extent all facilities throughout the course of this study.

I appreciate the consent, cooperation and courage given to me by Prof. S. P. Vyas, Prof. M. D. Khariya, Shri R. K. Upadhaya and other members of the faculty, Department of Pharmaceutical Sciences, Sagar.

I thank Concept Pharmaceutical Ltd, Aurangabad, for drug sample and for their laboratory facility. My sincere thanks to Chemo test Laboratory, Mumbai and Neha Analytical Lab, Nashik for testing facility and analysis.

I also owe much to Dr. S. B. Bhise, Dr. V. K. Mourya, Dr. Chitra Kulkarni, Dr. P. K. Puranik, Mr. Marathe, Mr. Nawle and Mayura for their stimulating thinking and co-operation, which has catalyzed my writing the thesis.

My gratitude for my mother can’t be expressed in words. My mother has brought me up with abundant love and care. Her courage, dedication and admirable patience have never made me feel the absence of my father and husband. Their sad demise was a shock, but then with passage of time and my mothers support made it possible for me to pursue this task. I
know their soul will rest in peace after seeing this thesis because it was the dream they
dreamt.

My brother Rajeev, with whom I have shared a beautiful childhood and many beautiful
moments together, has helped me to grow professionally and personally. To whom I offer my
love and thanks. My bhabhi Babita, has been a constant source of insight and loving support.
Her cheerful help has made the whole process thoroughly “flowful”.

My son Harshvardhan and niece Jinisha were a constant source of wit, creativity,
humor and enthusiasm. Their loving wisdom kept me challenged to “walk my talk” to them my
love and blessings.

My deep gratitude to my in-laws, Nani, Mr and Mrs Gupta, Manoj, Renu, Sangita,
Manoj and all my dear friends Vikash, Sayaji, Jitendra, Sharad, Pratibha, Dharmendra, Atul,
Varadha, Dr. kanhere, Mr and Mrs Dalal, Laila and Mr and Mrs Toshniwal and Bhusan.

My thanks to my research colleagues at the department Sanyog, Manish, Vandana and
kapil for their helping hands all the time.

My love to my mami’s, mama’s and cousins at Sagar who made my stay at Sagar a
pleasant one and who have nurtured me all these years.

Lastly, my thanks to Mr. B. S. Dhokane, photo artist Botany department, Aurangabad
for cosmeticology of thesis.