

ACKNOWLEDGEMENT

It would not be possible to do justice in a paragraph to many who have directly or indirectly contributed to my research work. I owe the reality of this thesis to Dr. R. A. Vora, Professor and Head, Applied Chemistry Department, Faculty of Technology & Engineering, M.S. University, Baroda, for suggesting the research problem and for his constant advice, helpful criticism and able guidance as well as constant encouragement at every stage of work, which indeed caused the work to be completed in time.

I am grateful to the Dean, Faculty of Technology & Engineering, for his keen interest in my work. My thanks goes to late Prof. J. M. Lohar, former head, Applied Chemistry Department for providing adequate research facilities.

I am grateful to Prof. Y. K. Agrawal, Head, Pharmacy Department, Faculty of Technology & Engineering, for providing the help in IR analysis of various samples.

I am very much thankful to the management of M/s. I.P.C.L., for granting me the permission to work in their laboratories for my Gas Chromatographic work and providing all the assistance as and when required in the work.

I thank Dr. Renu Mahajan for her assistance at different stages of my work. My sincere gratitude go to my colleagues Ms. Veena Tekchandani and Dr. Sadhna Rajput, for their co-operation in the laboratories.

I extend my special thanks to Mr. Manohar Karkare, for completing the typing of the thesis in the shortest possible time.

I am highly indebted to my parents and sisters for their constant co-operation, and everlasting compassion throughout the course of this investigation.

I am highly indebted to my father, Dr. R. N. Nigam, Senior Quality Control, ^{Manager} R. & D., I. P. C. L., for fruitful discussions and timely advice in chromatographic analysis.

My heartiest thanks goes to my better half Dilip for his constant encouragement and due assistance for the study.

Finally, I say, 'Thank you' to the entire staff of the department for their active help and co-operation.

Ranjana
R. R. Nigam