ACKNOWLEDGEMENT

From the bottom of my heart, I express my sincere gratitude to my teacher and mentor Dr. Vijay Kumar Sinha, Industrial Chemistry Department, V. P. & R. P. T. P. Science College, for his valuable guidance, supervision and parental care during the research work.

I am thankful to Dr. D. J. Desai, Principal, V. P. & R. P. T. P. Science College; Mr. K. M. Patel, Head of the Industrial Chemistry Department for providing research facility.

I am grateful to Dr. P. M. Patel, Lecturer, Industrial Chemistry Department for his valuable suggestions and constant encouragement during my research work.

My special thanks to Dr. Chintan Patel, Lecturer, ISTAR; for their kind support and important help.

My sincere thanks to Dr. Jigar Patel, Dr. Niramal Patel, Dr. (Mrs) Merlin Thomas; senior colleagues Dr. Jigar Joshi, Dr. Devang Wadia, Dr. Anurag Emenual and friends Rahul, Ashwin, Kalpesh, Vikram, Saurabh and Atul for their kind help throughout.

I am thankful to Mr H. R. Patel, Lab. Asst., of the college and Mr. Navin Talpada, Lab. Asst., P.G. Department of Chemistry for their kind help. I am also thankful to Mr. Rajnibhai Patel, Lab. Asst., ISTAR for their tremendous support during the course of my research.

My sincere thanks are due to Mr Hemant Kumar, Asst. Manager, IDMC Ltd, Vithal Udhyognagar; Dr. Ashish Patel, Champion Paints; Dr. Ujjval Trivedi, Bioscience Department and Dr. Milind Deshpande, Physics Department of Sardar Patel Univeristy for their kind help in getting various analysis done. I am also thankful to Mr. Shailesh Patel for his help in preparing the thesis.

It is a pleasure to express my gratitude wholeheartedly to my uncle Shri. B. S. Mishra, Shri. T. S. Mishra and Late (Shri) Rajendra Mishra for their parental care and resolute encouragement throughout in various ways. I am also thankful to Mr. O. P. Singh and Mr. Alpesh Singh for providing much needed moral help. Their involvement with their experience nourished my intellectual maturity that I will benefit from, for a long time.

Most of my gratitude goes to my parents Mr. Pramod Kumar Mishra, Mrs. Vinita Mishra and beloved sister Sonal, who have been exceptionally supportive and patient without questioning my choices; this work would not have been possible without their support and concern.

At last but not the least I pray to almighty for giving me much needed patience and strength to complete the research work.

– Deepak P. Mishra