ACKNOWLEDGEMENT

It gives me immense pleasure to thank my honorable supervisor Prof. N. R. Das, for his inspiring guidance, continuous help, constant encouragement and skilled advice to accomplish this research work. I shall always consider myself fortunate to have Prof. N. R. Das as my supervisor and remain ever grateful to him.

I would like to express my sincere thanks to every member of the teaching and non-teaching staff of the Department of Mathematics, Gauhati University for helping me in various ways during the research period.

I wish to record my sincere love and respect to my mother and my father in law Mr. Subodh kalita for their keen interest in knowing my progress and inspiration to complete the work in time.

I am also indebted to my respectable teacher and colleagues Prof. Dilip kumar Saha, Department of Mathematics, Dudhnoi college and friend Dr. Manash Lochan Das, Department of Chemistry, Dudhnoi College for their co-operation, continuous encouragement and moral support from the beging of my research work.

I wish to express my infinite gratitude to all of my friends and all persons who encouraged me directly and indirectly to undertake this research.

Finally, it gives pleasure to thank my wife for her co-operation, encouragement and whole hearted support.