ACKNOWLEDGEMENT

In the cross roads of life, we often come in contact with many persons and take their help to fulfill our multifaceted needs, however, we merely get chance to convey our gratitude to them. I take the golden opportunity through this work to convey my heartfelt thanks to those, without whose help, my work would not have successful, which is only a drop in the vast ocean of gratitude, this list is never ending but I cannot stop talking about those who deserves special appreciation.

I deem it a great pleasure to place on record my deep sense of gratitude and indebtedness to my research supervisors, Prof. Sarbeswar Kalita, Department of Environmental Science, Gauhati University and Prof. Jatin Kalita, Department of Zoology, Gauhati University, for their constant support, invaluable guidance and encouragement throughout the period of my Ph.D. work.

I convey my special thanks to the Gauhati Municipal Corporation for their valuable cooperation in the field study of my research work. I am also thankful to my beloved student Mr. Kriplal Jyoti Mazumdar for his encouragement and cooperation.

I am also grateful to all the research scholars in the department of Environmental Science and laboratory bearers of the department.

I express my deep gratitude to my wife Dr. Ruhi Borthakur and my son Sri Abhigyan Kashyap for their esteemed cooperation and continuous encouragement. I also convey my thanks to my elder sister Mrs. Nilima Devi, elder brothers Mr. Pankaj Sarma and Mr. Nirmal Sarma and younger brothers-in-law (Babul and Rubul) for their continuous encouragement.

Finally, I dedicate my thesis to my beloved parents.

(Amarjyoti Kashyap)