ACKNOWLEDGEMENT

At last, the time knocks the door where I have to confess honestly and memorize each and every moment spent by me throughout the journey of my research work. Its great privilege for me to express my deepest sense of gratefulness where I am highly indebted to both of my supervisors, Dr. Ashok Kumar and Dr. S. A. Hashmi for their capable guidance, constant encouragement and fruitful discussions throughout the course of my work. Their constructive criticism always helps me staying on the right track without deviating from the main aim of the work. The support, help and cooperation not only in academics but also in personal life that I got from him and his whole of the family member is especially acknowledged. The encouragement, care and family affection of Auntiji (Mrs. K. Fatma) will remain forever in my mind. The love and affection received from Asfar Hashmi, Asad Hashmi and Saba Hashmi are also memorable.

I am thankful to one of the active members of our research group Dr. H. M. Upadhyaya for his valuable suggestions and fruitful discussions during the initial period of my research work. I missed him a lot during the later part of my work as he left for U.K. The encouragement received from bhabhi ji (Mrs. Bhawana Upadhyaya) is also acknowledged.

I would like to thank all the faculty members of NERIST (Prof. Rajendra Prasad, Dr. P. R. Alapati, Dr. A. Chatterji, Dr. V. K. Dhar, Dr. M. Sengupta, Dr. Sanjay, Dr. Tado Karlo, Dr. Arvind Pandey) as well as the faculty members of Tezpur University (Prof. A. Choudhary, Dr. J. K. Sharma, Dr. N. S. Bhattacharya, Dr. G. A. Ahmed, Dr. N. Das, Dr. D. Mohanta, Dr. Ng. K. Francis, Dr. P. Deb) for their constant encouragement.
I owe my thanks to the help received from Awalendra Thankur, Bulbul Gogoi, Suresh Singh, Vijay Shankar Gogoi, A.K. Singh, Sidhartha Nath and all the research scholars of NERIST and Tezpur University. Support and help of technical staffs of NERIST (Mr. T. K. Ghosh, Mr. B. P. Deka, Mr. O. S. Rathore, Mr. Siji Kumar) is gratefully acknowledged. The help received from staff members (Mr. Manoj, Mr. Bulu Roy, Mrs. Tana, Mrs. Nabum) is also acknowledged.

I wish to express my acknowledgements to Mr. and Mrs. (P. K. Singh, G. K. Singh, Ramesh Singh) and their kids Gourav, Neha, Madhuri and Chandani for their full co-operation, care and help during my stay at Naharlagun and Guwahati.

I greatly acknowledge my uncle Mr. B. P. Tripathi, maternal uncles (Mr. Rajendra Pandey, Mr. Satyendra Pandey, Mr. Jitendra Pandey, Late Mr. K. N. Dubey, Mr. Rajnarayan Mishra, Mr. Trivuwan Mishra) and maternal aunties (Mrs. Vidyawati Pandey, Mrs. Asha Pandey, Mrs. Neelam Pandey, Mrs. Padmawati Dubey, Mrs. Durga Mishra, Mrs. Satyabhama Mishra) for their constant encouragement and moral supports.

I extend my special thanks to my (maternal and in law) brothers, (Mr. Rajendra Mishra, Mr. Indrajeet Mishra, Mr. Abhayjeet Mishra, Mr. Sabhajeet Mishra, Mr. Rajesh Mishra, Mr. Ramjeet Mishra, Mr. Shyamjeet Mishra, Mr. Yadavendra Pandey, Mr. Pradeep Mishra, Mr. Alok Pandey etc.) and my sisters in law (Richa, Preeti, Nishi, Anupam etc) as they are waiting eagerly for my success. I also acknowledge Meena Tripathi, Vidisha and Vandita for their support.

Thanks are due to navodayans (Deepika, Pooja, Razzi, Vidya, Sudha, Chandana and company) who always reminds me about my unfinished work.
I am thankful to my friends (Sunil, Ambarish, Manoj, Amit, Manisha, Sultana, Indu and Charu) for their constant encouragement.

I am also grateful to the funding agency i.e. Department of Science and Technology (DST), Govt. of India, New Delhi for providing the necessary financial support to carry out my research work (SP/S-2/M02/98).

The encouragement received from my father in law Mr. Lal Chand Pandey and mother in law Mrs. Nirmala Pandey is gratefully acknowledged. I extend my thanks to Mr. and Mrs. Aditya Narayan Pandey, Mr. Harishchand Pandey, Mr. Gulab Chand Pandey, Mr. Ramesh Pandey, Mr. Dinesh Pandey and Mr. Kamlesh Pandey for their constant help and cooperation.

Finally, I would like to express my sincere thanks and gratitude to my father Sri. Pashupati Nath Tripathi, my mother Smt. Durgawati Tripathi, my younger sisters Manju and Sanju, younger brother Rakesh and my wife Renu for their full cooperation, constant encouragement, intolerable patience and untiring perseverance for bearing me and taking so much pains throughout the period of my research work until the completion of my thesis. This work would not have been possible for me at all without their moral support. They always remind me about my unfinished work, sacrificed their personal happiness and looking eagerly for my grand success.

(Santosh Kumar Tripathi)