ACKNOWLEDGEMENT

There are countless numbers of people to thank for their help, influence, and inspiration given to me over the course of my PhD work. First I would like to thank my guide Prof. Tulshi Bezboruah, Head, Department of Electronics and Communication Technology, Gauhati University for his constant guidance and immense support towards the work. His kind trust, constant encouragement, and pleasant personality have made my research work more enjoyable to carry out smoothly in the last few years.

I am also thankful to Prof. (Mrs.) Pranayee Datta, former Head, Department of Electronics and Communication Technology, GU and other faculty members and research scholars for the kind co-operation and valuable suggestions provided towards the work. I also sincerely acknowledge the services of my past and present students, non-teaching staffs, who helped me a lot while performing many of the painstaking experimental works in the research laboratories of this department.

I am very much thankful to DST, India for providing me an international travel support in the form of financial grant for attending an international conference in Las Vegas, Nevada, USA during July 14-16, 2009. I am highly grateful to my family members for their love, care, patience, understanding and unconditional supports rendered to me without which my research work could not have been finished. Above all, I do remember the dedicated and sincere efforts of my beloved and respected teachers, who taught me till date.

(Hidam Kumarjit Singh)
Department of Electronics & Communication Technology
Gauhati University