ACKNOWLEDGEMENT

I would like to acknowledge all those who, directly or indirectly, made my stay at Tezpur University very enjoyable and fruitful.

First of all I would like to express my appreciation and thanks to my supervisor Prof. Jayanta Kumar Sarma for his care and guidance which have been the motivating factors behind my progress. I would like to thank him for encouraging my research and for allowing me to grow as a researcher. His advice on both research as well as on my career have been priceless.

I take the opportunity to thank Tezpur University for providing me the research facility to carry on my research work properly. I also extend my gratitude to all the administrative staffs for their invaluable help during my stay over here.

I would like to express my deepest gratitude to Prof. A. Choudhury, Prof. A. Kumar, Prof. N. S. Bhattacharyya, Prof. N. Das, Prof. R. S. Sirohi, Dr. G. A. Ahmed, Dr. D. Mohanta, Dr. P. Deb, Dr. K. Barua, Dr. A. Pathak, Dr. Ng. K. Francis, Dr. M. K. Das, Dr. D. Borah, Dr. P. Nath, Dr. P. K. Karmakar, Dr. R. Biswas, Dr. A. J. Choudhury, Dr. R. Sarmah, Dr. R. Gogoi and Dr. S. K. Das of Dept. of Physics, Tezpur University for their valuable guidance and encouragement to carry out this work.

I wish to express my sincere thanks to all the departmental staff for their help during the working days.

I would also like to acknowledge DAE BRNS for financial support that I received in some part of my research period that helped me to carry out this work.

I also want to thank all my seniors, juniors, colleagues and friends in Tezpur University for their help and good wishes. I am thankful to Sovan da, Rathin da, Mayuri ba, Nayanmani, Ananya, Saurav, Runjun, Chandrani, Nurjahan, Ruprekha and many other friends for their help and good wishes and who made my stay at the campus

joyful.

A special thanks to my family. Words cannot express how grateful I am to my

mother, father, mother-in-law, father-in-law for their sincere encouragement and inspi-

ration throughout my research work. Their prayer for me was what sustained me this

far. I would also like to thank my brother Jatin, sister Bornali, brother-in-law Munti

and sister-in-law Nilakshi. They were always supporting me and encouraging me with

their best wishes.

At the end, I would like to express my special appreciation and thanks to my beloved

husband Prabwal Jyoti Phukon for standing by me throughout the years. I truly thank

him for cheering me up and supporting me during my good and bad times.

Thank You All

Date:

(Nomita Baruah)