ACKNOWLEDGEMENT

I have great pleasure to express my sincere gratitude and indebtedness to my research supervisor Dr. M. B. Halli, Professor in Physical Chemistry, Department of Chemistry, Gulbarga University, Gulbarga for his inspiring guidance and enthusiasm throughout my study. I take this opportunity to acknowledge my sincere feeling of gratitude and respect for his valuable discussion, suggestions and kind help at every stage of the present work.

I am thankful to Prof. M. G. Purohit, Chairman Department of Chemistry, Gulbarga University, Gulbarga for providing the facilities during my research work.

I am thankful to Prof. (Smt.) S. S. Sangapure, former Chairperson, Department of Chemistry, Gulbarga University, Gulbarga for providing facilities and encouragement of my research work.

I express my sincere thanks to Prof. B. K. Prabhakar, Prof. B. R. Patil, Prof. S. D. Angadi, Prof. J. S. Biradar, Prof. A. Venkatraman, Prof. B. H. M. Mruthyunjaya Swamy, Prof. V. R. Kulkarni, Prof. N. M. Goudgoan, Dr. K. Siddappa and Dr. Anand S. for their help and encouragement.

I express my sincere thanks to my research colleagues Dr. Shashidhar, Dr. Z. S. Qureshi, Angadi Basavaraj, P. Vitall Reddy, B. A. Jummal, Panchunath, Smt. Irfana Zubeen, Srinivas, Somshekar, Tukaram Reddy, Dr. Omkhar, Dr. Jadegouda, Dr. Yadav B., Dr. G. P. Klaskar, Dr. Shivalingappa, Dr. Y. Majunath, Dr. Somanath, Dr. Nirdosh, Dr. Satynarayan, Dr. Arunkumar, Dr. C. Basavaraj, Dr. Vijayanand, Shrishailappa, Vasudev, Raga Basavaraj, Vishnuvardhan, Omkar Khandre, Ramgopal, V. Sharma, Suresh M., Doddappa A., Sanjay, Revanasiddappa, Smt. Manjulata, Dr. (Miss.) Vijayalaxmi, Miss. Jayashree, Miss. Vidhyvati, Kashinath, Saleem, Praveen, Prakash P., Upendra, Basavaraj, Balaji, Girish, Fazul-ur-Rehaman, S. Basavaraj, Jeelan P., Sadat Ali, Dhondiba, Girisanju, Smt. Swathi, Parmerwar, Sanju Chincholi, Chetan, Verangouda, Pramod,
I am thankful to the Director RSIC-IIT-Madras, Chennai. RSIC-CDRI-Lucknow. SIF-IISc. Bangalore and RSIC-IIT-Bombay, Mumbai. CIF-DC, Gulbarga University, Gulbarga for providing spectral facilities.

I would like to thank the non-teaching staff of our Department for their help and cooperation.


I desire to express my sincere gratitude’s to Ravichandra Prakash, D.O.L.I.C. Prof. N. Channakki Govt. Degree college, Sedam and Basavaraj, Gemshing R. teacher for their inspiration and valuable suggestion throughout my student life.

I owe everything the affection, support and encouragement my father late Sri. K. Revanasiddappa, brothers Mr./Mrs. K. Mallikarjun, Mr./Mrs. Gundurao, Mr./Mrs. Hanmanth, Sisters Smt. Jagadevi, Smt. Vijayalaxmi and Miss. Basavajeswari and Kum. Kavya, Bhavya and Chi. Renu, Chi. Amar, Kum. Ashwini, Raju S., Miss. Renuka S., Miss. Meenakshi, Miss. Asha Rani, Chi. Ambrish, Chi. Megharaj and other members of my family. Also I would like to take this opportunity to offer them my most sincere gratitude.

I am also thankful to my close friends Sri. Siddaraj V., Ramesh Patil, Nagendar K., Prabhu P., Ravi B., Vijayshankar H., Dattu, Baburao, Sharanu L., Raju M., Mallu Mudnak, Jagu R., Kiran, Devendar, Anil Bagli, Siddu B., Nagu T., Sudhakar H., Somu B. and Ashok, for their encouragement and moral support.

I am thankful to Mr. Javeed, Mr. Khasim and Mr. Jagadish, Popular Xerox, Gulbarga for the timely and neat typing of the thesis.

Finally, I thank one and all who directly or indirectly helped in the course of my research work.

K. Shivakumar