ACKNOWLEDGEMENT

I wish to place on record my indebtedness to my honorable guide Dr. K. S. Patel (M. Sc. Ph.D., Alexander von Humboldt Fellow, Germany) Professor, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur for his constant encouragement and valuable guidance throughout the course of present study. I am indebted to him for his attention to my study in spite of his busy schedule and heavy official engagement. I am thankful to Dr. N. Jakubowski, Head, Institute for SpectroChemistry and Applied Spectroscopy, Dortmund, Germany and Dr. J. Feldmann, Department of Chemistry, University of Aberdeen, Aberdeen, UK for providing facilities to analyze some samples. I am grateful to Prof. G. L. Mundhara, Head, School of Studies in Chemistry for always being supportive and for providing laboratory facilities.

I extend my sincere thanks to the Council of Scientific and Industrial Research, New Delhi for financial support through project grant no. (No.-01(1866)/03/EMR-II).

I am grateful to my colleagues i.e. Dr. Aditya Shukla, Dr. Paresh Chandra Sharma, Kavita Agrawal, Gaurav Agnihotri, Gopal Das Manikpuri, Saroj Sharma and all my friends for their suggestion, cooperation and help.

I am at loss of words to express my heartfelt gratitude to my beloved parents and family members. It was their forbearance, goodness, support, love and encouragement, which saw me through the ordeal of this difficult endeavor.

Lastly, I thank God, The Almighty or for helping me in all my endeavors.

K. Shrivastava

(Kamlesh Shrivastav)