ACKNOWLEDGEMENT

It has been a great pleasure for me to express my deepest sense of gratitude and inner sentiments to my research guide Dr. Balasaheb. R. Arbad, Former Professor & Head UGC-BSR-FF, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. He deserves my thanks because he has not only guided me during the completion of this research work but also motivated and encouraged me. I deeply indebted to him for his keen interest, valuable guidance, strong motivation, constant encouragement and sympathetic consideration. His suitable guidance, advice and suggestions have always helped me to think positively and remain optimistic. I am fortunate to have had an opportunity to study under him. I ever remain grateful to him.

I am very much thankful to Dr. Smt. A.S. Rajbhaj, Professor and Head, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, for encouraging and providing laboratory facilities without her cooperation the work would not have been possible.

I deeply express my sincere thanks to Professors Capt. Dr. S.T. Gaikwad, Dr. M.K. Lande & Dr. C. H. Gill (Former Professor) Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for his motivation, constant encouragement and guidance.

I would like to express my sincere thanks to other respected faculty members of the department of chemistry Shri. S R. Sonone, Dr. S.G. Shankarwar, Dr. B.R. Sathe, Dr. B.B. Shingate, Dr. Smt. G.M. Bondle, Smt. A.S. Chavan, Dr. T. K. Chondhekar (Former Professor), Dr. R. A. Mane (FormerProfessor), Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for their valuable support and constant encouragement.

I deeply express my special thanks to my senior research colleagues Dr. M. R. Bagal, Dr. A.O. Dhokte, Dr. R.H. Satpute, Dr. M.A. Sakhare, Dr. S. L. Khillare, Dr. U. P. Shaikh, Mr.U.B.Shep, Dr. M. Nikam, Dr. A. S.Munde, Dr.Vishwas mane for their generous help & suggestions during the progress of the research work.
I am also thankful to my research co-scholars, Miss. Nilam D. Bansode, Miss. Archana Kachre, Mr. D. T. Tayde, G. Pawar, S. P Gadekar, Miss. T. Ramteke, N. Digore, Mr. N. Bhise, V. Sapner, Miss. Ashwini Agle, Dr. Vrushali Gavane, Miss. Sonali Janjal and non-teaching staff for their willing assistance & support.

I take this opportunity to sincerely acknowledge the, University Grants Commission, Government of India New Delhi, in the form of UGC-BSR Faculty Fellowship to Prof. Dr. B. R. Arbad for providing financial Assistance which buttressed me to perform my work comfortably.

My sincere thanks are also due to Mrs. Lata Arbad Madam for giving me lovable & homely atmosphere during the progress of my research work.

Lastly, and most importantly, it is time to express deepest gratitude to my entire family. My parents deserve special mention for their inseparable support and prayers. My father Mr. Krushnarao N. Pawar and mother Mrs. Sarita K. Pawar, in the first place are the persons who put the fundamentals of my learning character, showing me the joy of intellectual pursuit ever since I was a child. They sincerely raised me with caring, supported me, taught me and loved me. My sincere thanks are also due to my father and mother in-law Mr. Pandarinath B. Bhosle and Mrs. Mangal P. Bhosle for supporting me during the progress of my research work without their help it is impossible for me.

It will be failing in my duties if, I do not mention the cooperation extended by my beloved husband Mr. Pankaj P. Bhosle during the progress of my research work.

Finally, I would like to thank everybody in my family who was important to the successful realization of the thesis, as well as expressing my apology that I could not mention personally one by one.

Miss. Rucha K. Pawar