ACKNOWLEDGEMENTS

I would like to express my deep sense of gratitude to Dr. B. R. Arbad, Professor, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for his constant encouragement, most helpful comments and generous and most valuable guidance, without which this work would not have been possible. I shall ever remain grateful to him.

My sincere thanks are to Dr. M. S. Shingare, Head, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for inspiration and providing the facilities during the work.

I express my sincere thanks to Dr. M. K. Lande, Lecturer, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for his valuable suggestions and moral support.

I am also thankful to Dr. T. K. Chondhekar, Dr. R. A. Mane, Shri. S. R. Sonone, Dr. C. H. Gill, Dr. A. S. Rajbhoj, entire teaching and non-teaching staff of Department of Chemistry, for their generous help and cooperation during the progress of this work.

I believe it as my pleasant duty to offer thanks to my most respectable Dr. D. V. Jahagirdar Sir, Former Head, Department of Chemistry, for his most valuable guidance.

I express my sincere thanks to Dr. S. C. Mehrotra, Professor, Department of Computer Science, Dr. Khirade Sir, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for their valuable suggestions.

I keenly express my sincere thanks to my research colleagues for their generous help and suggestions during the progress of the work.

Thanks are also due to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for the financial assistance in the form of University Junior Research Fellowship.

I shall be failing in my duty if I do not express my sense of gratitude to my mother Smt. Mandakini Wankhede, father Shri. Namdeorao Wankhede, my brothers Sachin, Manoj, sister-in-law Vaishali, sister Sujata for their co-operation during the completion of the present research work.

(N. N. Wankhede)