ACKNOWLEDGEMENT

With great pleasure, I express my profound sense of gratitude towards my research guide Dr. Milind B. Ubale, Associate Professor and Head Dept. of Chemistry, Vasantrao Naik Mahavidyalaya, Aurangabad, for his excellent guidance, constant encouragement, novel ideas, stimulating discussion and thought provoking suggestions. I consider myself extremely fortunate to have worked under his guidance. I am highly indebted to him for giving me an opportunity and inspiration to carry out this work.

I am deeply indebted to honorable Padmabhusan Dr. Badrinarayanji Barwale (President, B.R. Barwale College, Jalna) and Shrikishanji Mundada, Dr. Usha Zehr, Dr. R.G. Agrawal, Shri. Sureshji Agrawal for their moral support and encouragement for this research work.

I offer my sincere thank to Dr. R.S. Awasthi (Principal, Badrinarayan Barwale Mahavidyalaya, Jalna), Dr. S.N. Sandikar (Ex-Principal), Dr. Maqdoom Farooqui (Principal, Maulana Azad College, Aurangabad) and Dr. Mazahar Farooqui (Incharge, Post graduate and Research Centre, Maulana Azad College, Aurangabad) for their kind help and co-operation during the research work.

I pay my sincere respect to Dr. D. G. Dhuley Ex Professor and Head, Dr. B.A.M. University, Aurangabad, Dr. Ahemed Zaheer (Ex Principal, Maulana Azad College, Aurangabad) for their helpful suggestions, generous help and well wishes during this research work.

I shall remain extremely grateful to my teachers Prof. Dr. C. H. Gill, (Head, Department of Chemistry), Dr. R.A. Mane, Prof. Dr. M. S. Shingare, Prof. Dr. B. R. Arbad, Dr. T. K. Chondhekar, Shri. S. R. Sonone, Dr. S.T. Gaikwad, Dr. M.K. Lande Department of Chemistry, Dr. B.A.M. University Aurangabad, for their encouragement and valuable guidance for this work.

I keenly express my sincere thanks to Mrs. M.R. Sangvikar, Mr. Ravindra Shimpi, Mr. Madhav Hebade, Mr. Om Chavan, Dr. S.R. Kagne,
Dr. S.S. Puri, Dr. B.S. Naphade, Dr. P.M. Kokne, Dr. N.P. Barde, Shri. S.D. Patil, Dr. A.A. Anbhule, Dr. S.S. Bharade, Dr. N.S. Lokhande, Dr. U.G. Thorve, Shri. S.K. Chaudhari, Dr. R.L. Bhore, Shri. V.S. Bhutekar, Shri. R.G. Walse, Shri. G.S. Waghmare, Shri. S.N. Kamble, Dr. K.G. Suryawanshi, Shri. B.D. Katare, Shri. B.B. Sale, Shri. K.N. Kumbhar, Smt. Saira Kazi, Shri. Harris Panakkal, Shri. M.K. Kulkarni, Shri. S.R. Tawarwala, Shri. V.B. Lonkar, Shri. A.S. Joshi, Ram Hiwrekar and Sandip Gurrap along with all the teaching and non-teaching staff of B.R. Barwale College, Jalna, for their moral support and encouragement during the progress of the work.

I shall be failing in my duty if I do not acknowledge the willing cooperation rendered by my friends, Principal Dr. R.K. Pardeshi, Dr. P.G. Mundhe, Dr. B.R. Agrawal, Dr. D.M. Janrao, Dr. Ganesh Bhagure, Dr. Arif Pathan, Dr. Prashant Netankar, Shri. Dinesh Lingampalle, Shri. S.R. Gour, Shri. S.U. Thakur, Dr. S. D. Rathod, Dr. A. S. Munde, Dr. J.V. Bharad, Dr. Archana Chapolikar, Mrs. R. S. Shelke, Shri. Vitthal Dhakane, Mr. B. K. Magare, Shri. V. R. Chaudhary, Dr. Jayshree Chamargore, Dr. Balaji Madje, Shri. Vijay Mundhe, whose involvement, interest and assistance was a source of confidence.

Last but not the least I would also express my heartiest thanks to my father Shri. Shivsing and mother Sau. Rajkunwar, my wife Sangita, my son Khushwantsing and daughter Siddhi for their kind patience, constant encouragement with love and affection during this work.

Place : Aurangabad

Date : / / (Bhagwansing S. Dobhal)