ACKNOWLEDGEMENT

I would like to thank my guide Dr. S.S. Patil, Associate Professor, Department of Environmental Science Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, for providing an opportunity to pursue Ph.D. in Environmental Science under the faculty of science. I am grateful to him for his invaluable guidance throughout my work. His deep insight in the subject has inspired and motivated me to turn out a viable thesis. His meticulous observation at every stage of this work has helped me a lot in bringing this thesis to its present form.

I would like to express my special thanks to Dr. S. T. Khursale Hon’ble Chairman of Shri Yogeshwari Education Society, Ambajogai, Advocate S.T. Karad Executive Vice president Shri Yogeshwari Education Society, Advocate V.K. Chousalkar Hon’ble Secretary of Shri Yogeshwari Education Society, Ambajogai, Shri S.D. Mohrir Joint Secretary of Shri Yogeshwari Education Society Ambajogai for their invaluable support and encouragement throughout the period of my research work.

I am grateful to Dr. P.S. Prayag Principal, Yogeshwari Mahavidyalaya Ambajogai and Vice Principal Mrs. K.J. Deshpande for kindly granting me permission to carry out my research work. It is my great privilege to express my deep sense of gratitude. I am also grateful to
Shri V.B. Chavan (Jr. College) Vice Principal Shri P.K. Karad (M.C.V.C. Section), for their valuable guidance and support during the research work..

I am also thankful to the authorities of Ambajogai Sakhar Kharkhana and Vaidyanath Sakhar Kharkhana for their valuable help in helping me to collect the technical information of the sugar factories.

I express my deep sense of thanks to Dr. M.B. Mule Prof. & Head of Department of Environmental Science Babasaheb Ambedkar Marathwada University, Aurangabad. Dr. N.N. Bandela Associate Professor, Dr. B.L. Chavan Reader, for their encouragement and academic support during the research work.

I express my whole hearted thanks to my mother Shrimati Vijaya Dinkar Joshi for her deep affection and constant encouragement without which it would have been impossible for me to reach to my goal and to whom I owe all my achievement. My humble thanks are also due for all my family members who have morally supported me to complete this task.

Finally, I wish to express my gratitude to my wife Shailaja for her untiring patience, support and encouragement throughout the period of my research work and warm greetings of my son’s Abhishek and Atharv for allowing me to do this work. I am also thankful to Sow.
Sandhya Wahini for her kind cooperation during the entire period of my research work.

My thanks are also due to Mrs. Gauri Nikam for her excellent computer work and completing the work well in time. Lastly I thank one and all whom directly or indirectly extended their co-operation to me in completing this research work. I am also thankful to my elderlely brother like friend Shri Dilip Yardi & my young friends and research students in the department, Ishwar Gorade and Vishnu Potadar for their valuable support in designing the Thesis. My thanks are also due to all the non-teaching staff of Department of Environmental Science, Dr. Babasaheb Ambedkar Marathwada University, and Aurangabad.

Mr. R.D. Joshi