ACKNOWLEDGEMENT

I wish to place on record my profound sense of gratitude to my esteemed guide Dr. S. Chandraju, Reader in Sugar technology, Yuvaraja's College, University of Mysore, Mysore, who introduced me to the research field by suggesting the problem and supervised at all stages, his patience, constant encouragement, inspiration and guidance at very stage of the present investigations, have been invaluable.

I wish my special thanks to Prof. C.N. Srinath, former director, Prof. O.D. Heggade, Director, P.G. Center, Tubinakere, for providing necessary facilities required for my research work.


I am grateful to Management of Central Power Research Institute, Bangalore, Management of Indian Oil Corporation Ltd., Bangalore, Indian Institute of Science, Bangalore, Kengeri regional Workshop, and Koramangal Depot, KSRTC, Bangalore, the Management of Mysugar Co, Ltd., Mandya, The Principal Jayachamarajendra College of Engineering, Mysore, for providing laboratory facilities for this investigation.
I take this opportunity to thank my husband Sri M.L.Ramesh, Proj. Officer, CMC, Mandya, for his constant inspiration and moral support throughout the course of this investigation. I am thankful to my grand parents B.Lingaiah and M.B.Boraiah, Lt. M.Mallamma, puttachannamma and parents L.Krishnappa and M.B. Janaki and B.R.Rajashekar and Lt.B.R.Vaidyanath and L.Gowramma and my lovely childrens M.R. Nikhil and M.R. Jagadish, my brothers B.K. Balachandra and Sunitha, B.K. Roopesh Kumar and brother in law M.L. Srinivas and father in law Lt. Lingegowda for their blessings and moral support.

I am highly thankful to Mrs. Sulochana Chandraju for moral support and inspiration throughout the course of investigation.

I am grateful and special thanks to A.Somashekar, DDPI, Mandya, for his support and inspiration.

I am highly greatfull and special thanks to Sir.S.Satyanand P.R.E.D, Mandya.

I am highly thankful to E.C. Ningaraju, Librarian, CIST, University of Mysore, Mysore for his support in preparing the thesis. I thank Dr. Shaukath Ara Khanoom, Dept. of Chemistry, Yuvaraja's College Mysore, Mysore for giving fruitful suggestions during the preparation of this thesis.

I am thankful to G.H. Shivaswamy and Devanand, Panchalingu of Sri Bhryaveshwara Graphics, Vinoba road, Mandya for thier skillful work for neat output of my thesis.

Finally I thank one and all who encouraged me directly or indirectly during my research work.

(B.K. PRATHIMA.)