ACKNOWLEDGEMENT

I express my deep sense of gratitude to Dr. B.K. Chougule, for his valuable guidance, stimulating discussions and constant encouragement through out the present investigation.

I am grateful to Prof. S.H. Pawar, Head, Department of Physics, shivaji University, Kolhapur, for providing me the necessary facilities.

I offer my sincere thanks to Prof. R.N. Patil., Dr. S.A. Patil., Dr. S.R. Sawant., Dr. Vijaya Puri., and Dr. Satish Lotke for extending their helping hand whenever I requested.

I am thankful to S.S. Bellad, N.D. Choudhari, Mrs. V.G. Surve, Jamadar, A.K. Ghatage for their co-operation.

My acknowledgements will be incomplete if I fail to offer my thanks to Kasegon Education Society, Kasegon and the principal R.D. Rade, Kanya Mahavidyalaya Islampur, for encouragement and support.

I offer my sincere thanks to Dr. A.N. Bote, Polymer scientist NCL, and Dr. S.I. Patil., University of Pune, Pune, for their active cooperation.

Finally, I acknowledge the singularly important contribution to my husband Prof. G.D. Bhosale for his

unfailing encouragement and ensuring my physical and mental well being.

(A.S. Patil)