ACKNOWLEDGMENT

I express my deep sense of gratitude to Dr. D.P. Zutshi, Reader, Centre of Research for Development and Professor K.P. Dubey, Department of Chemistry, University of Kashmir, for their noble guidance, constructive criticism, supervision and keen interest at all stages of this study.

I am thankful to Prof. M.Y. Qadri, Director, Centre of Research for Development, for providing me the necessary facilities.

I owe the greatest debt to my revered parents and dear brother for their extra patience, blessing and heart touching encouragement throughout my studies.

Thanks are also due to Dr. B.A. Subla and Dr. M.A. Qurishi for their help and encouragement during my research work.

I gratefully acknowledge the timely help and valuable suggestions rendered by Dr. M.V.M. Desai, Dr. V.V. Kulkarni and Dr. K. Raghu of Bhabha Atomic Research Centre, Bombay.
I also extend my thanks to my research colleagues Reyaz, Irshad, Tasneem, Gh. Rasool, Shabeer and Angali Kaul.

Above all I would love to record my thanks to Dr. B.L. Bhat, Shri S.K. Bhat and Miss Sneh Koul whose benevolent assistance and encouragement was available throughout my research work.

I am also indebted to authorities of Department of Environment, New Delhi, for their financial support.

Finally, thanks are due to Mohd. Sidiq Dar for typing this thesis very passionately.