ACKNOWLEDGEMENT

I am very much grateful to Dr. S. MOHAN, Ph. D., D.Sc., Dip. in German., Dip. in HRD., D.B.A., D.B.M., F.I.C.S., F.NY.A.Sc., F.L.S.S., F.Inst. P., Professor and Head, Raman School of Physics, Pondicherry University, Pondicherry, for providing me an opportunity to venture into this research area and also for extending guidance and constant encouragement throughout the work. It would not have been satisfactorily accomplished but for his genuine cordiality, patience and innovation which moulded me to do hard work and to show keen interest in doing research.

I am very much grateful to the M.D.T.Hindu College Committee for permitting me to do Ph.D. programme. I wish to acknowledge my sincere thanks to Dr.C.N. CHIDAMBARANATHAN, M.A., M.Phil., Ph.D., Principal, The MDT Hindu College, Tirunelveli-10 for showing much interest towards my progress and also to the teaching and non teaching staff of the college.

I am very much thankful to Shri.B.Karthikeyan, Shri.D.Manikandan and Dr. R.Murugaraj for their kind help and suggestions during the course of my research work.

I am greatly indebted to my wife Smt.R.Srilalitha and my daughter baby S.Aparna for their kind affection without which I would not have been successfully completed this thesis.

D. SRIDHAR