Acknowledgements

I would like to extend my profound gratitude and sincere appreciation to each and every one of those who have helped me in this endeavour.

I owe deep gratitude, thanks and appreciation to my beloved teacher and research supervisor Dr. P.S.Naik, professor, Department of P.G. Studies and Research in Physics, G.U.K for his full support, continued encouragement, guidance and timely advice throughout my research work.

I am highly grateful to Dr. V.M.Jali, Professor and Chairman, Dr. T.Sankarappa Professor and Former Chairman, Dr.S.M.Hanagodimath Professor and Former Chairman, Dr.Basavaraja Sannakki, Professor, Dr. B.R.Kerur, Professor, Dr.M.V.N.Ambika Prasad, Professor and Dr.R.D.Mathad, Professor(Rtd) and Former Chairman, Department of P.G.Studies and Research in Physics, Gulbarga University, Kalburgi, for providing me the necessary facilities, ample time and opportunity to carry out my research work.

I am highly indebted to Dr. M.K.Rabinal, Professor of Physics, Karnataka University, Dharwad and Dr. S.S.Suryavanshi, Director, School of Physical Sciences, Solapur University, Solapur for their continuous guidance and support in
this work, I am also thankful to their research students for their help from time to time.

I sincerely thank Sri S. A. Punekar President, Sri A.S. Patil Hon. Gen. Secretary, Sri R.G. Farooqui Director, Sri A.M. Bagali, Director, Dr. Zia-Abdeen, Director, and Sri Salahuddin Ayubi, Director, and members of SECAB Association, Vijaypur for their encouragement and support.

I am highly thankful to our Principal Dr. (Mrs) Roshan Ara, all my colleagues and supporting staff for their continuous support, cooperation and encouragement.

My special thanks to those who continuously worked together with me throughout the project Prof. L.I. Nadaf, Dr. Irfan Ahamed, N. Shaikh, Miss Ambreensaba Mulla and Mr. Mohammed Asif G. Satarkar.

I gratefully acknowledge the blessings of my beloved parents, and cooperation, support & encouragement extended to me by my wife, sisters, brother, sons and relatives.

I thank the research students and non-teaching staff, Dept. of P.G. Studies and Research in Physics GUK.

............any omission in this acknowledgement does not mean lack of gratitude.

Mohammed Afzal
Date: 11.11.2016