Acknowledgement

I am extremely thankful to the almighty god for generate suitable Environment in higher education for me and making me capable of doing all that I purpose, the work leading to my Ph.D. thesis submission one of them.

I obliged my special thanks to Dr. Anamik Shah, Vice Chancellor, Gujarat Vidhayapith, Ahmadabad, Gujarat

In fact, words fails me to express my sincere feelings of gratitude to my research guide Dr. Denish Karia, Assistant Professor of Chemistry, Patel J.D.K. Davolwala Science College, Borsad, for his keen interest, patience and constant encouragement during course of my work on this thesis. Of course, it is my life time achievement to work with him. Foremost I would like to bow my head with utter respect to my Father, Mother, my Family members, who blessed me with their good wishes, relieving all types of stress and remaining always with me and continuing to boost my spirit.

I would like to express my feelings of gratitude to Dr. R. A. Agarwal, Principal, H. & H.B. Kotak Institute of Science, Rajkot, for providing adequate infrastructure facilities in carrying out research work. I am also thankful to Dr. P.H. Parsaniya, Head of the Chemistry Department, Saurashtra University, Rajkot.

I am heartily grateful to my colleagues and friends Dr. J.C. Javiya, Incharge, Research & Development Center, H. & H.B. Kotak Institute of Science, Rajkot. Dr. R.C. Khunt, Dr. R.A. Varu, Dr. M.G. Borisagar, Dr. S.K. Joshi, Dr. H.B. Oza, Dr. R.B. Kakadiya, Dr. J.V. Padaliya, Dr. D.G. Joshi, Mr. A.H. Jalwani, Ms. J.L. Kotecha, Mr. J.S. Kanzariya, Mr. Bharat Bariya, Mr. P.K. Maradiya, Mr. S.D. Rathod, Mr. V.R. Pandya, Dr. R.A. Varu Ms. Disha Tilala, Ms. Vishwa Dhinoja, Mr. Batuk Dabhi for their all kind concern, time being help, best wishes and moral support.

- Kailash S. Pancholi