

ACKNOWLEDGEMENT

I wish to express my sincere gratitude to my supervisor **Dr. V.Suresh Kumar**, Associate Professor, Dept of EEE, Thiagarajar College of Engineering, Madurai for his guidance, encouragement and support during my studies. His leadership and motivation have been a source of inspiration and a model for me to follow.

I am also grateful to Head of the Department/ EEE and the Principal, Thiagarajar College of Engineering, Madurai for their help and support during my study. I am thankful for the opportunity to be a member of Electrical Electronics Engineering Department, Thiagarajar college of Engineering, Madurai.

I profusely thank **Dr.S.Chandra Mohan**, Professor, Dept of EEE, Anna University, Chennai and **Prof. Dr. M.Saravanan**, Dept of EEE, Thiagarajar College of Engineering, Madurai for serving as a member of my doctoral committee.

I am very grateful to **Mr.A.Kannabiran**, Assistant Professor/EEE, SASTRA University, Kumbakonam for his remarkable advices and concern. His guidance provides the background knowledge on Electrical Drives. I would like to thank **Mr.M.Saravanan**, Electrical Engineer, JSE Engineering Ltd, Chennai for his contributions to this study.

I would like to express my great indebtedness to my husband who has been a constant pillar of support and understanding. I owe it to him for all the sacrifices he made with my son and daughter while I worked on this thesis. Finally, I would like to thank my family members and colleagues who have been a great source of support and comfort.

RAMELA KR