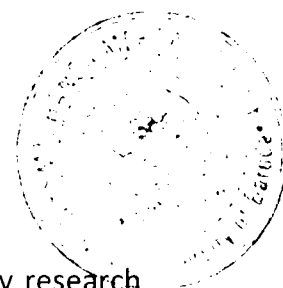


AKNOWLEDGEMENT



I wish to express my appreciation & deep thanks to my research guide Dr R. B. Kelker, Professor Electrical Engineering Department, Faculty of Technology and Engineering, M.S. University; Vadodara, who inspired me to work in power quality improvement, for his timely guidance, suggestions without whom this success would not have been possible.

With a deep sense of gratitude, I acknowledge here, the motivation, guidance & inspiration I received from Dr M. Ramamoorthy who shows full confidence in my abilities and encouraging me to perform to the best of my capabilities. It is only his inspiration to introduce me to front end research & guide me throughout this research work.

My sincere thanks to Shri U. C. Trivedi, Joint Director & Head, Electrical & Electronics Division, Electrical Research and Development Association, (ERDA), Vadodara for extending all the best possible help throughout the course of this work

With deep sense of gratitude I thank Shri D. A. Sathe, General Manager Engineering Department, Tata Power Co Ltd. Mumbai for sponsoring & taking the initiating to solve the issue related to power quality of their system. I am also grateful to Shri A. M. Mukherji & his colleagues along with my colleague Shri Kamlesh Keharia for his co-operation during the field-testing of the series active filter.

I am grateful to Management of ERDA for providing me the facilities and infrastructure to carry out the work at ERDA, Vadodara. I gratefully acknowledge the assistance received from my colleague Shri Kamlesh Keharia and Dinesh Rohit along with others colleagues of Power Electronics & Instrumentation cell who truly helped me throughout the period.

Without my family's sacrifice and support, this study would not have been possible. I would like to thank my parents, my beloved wife, my daughters Hetavi and my son Bhavya for their unconditional love and constant encouragement in all my endeavors.

My grateful thanks are due to many others who have made it possible for me to complete this work

Vinod Gupta