## **ACKNOWLEDGEMENT**

I heartily express my sincere gratitude to Prof. G. S Parthasarathy, (Ex.- Director, WREMI, M. S University and Presently Director, Mahatma Gandhi Institute of Technical Education And Research Centre, Navsari) for most valuable and inspiring guidance throughout this research work.

It gives me immense pleasure to thank Nirma University of Science and Technology, Ahmedabad (especially Dr. N. V. Vasani, Shri Ambubhai M. Patel, Shri K K Patel, Shri D. P Chhaya, Shri Ashish Desai and Shri B J. Patel) for providing wholehearted support and financial grant to carry out experiments for this research work at Nirma University campus and also to present a research paper at 3rd International Conference on "Water Resources Management 2005" organized by Wessex Institute of Technology, UK from 11/04/2005 to 13/04/2005 at Portugal.

I wish to heartily thank Gujarat Water Resources Development Corporation (GWRDC), Gandhinagar (especially Dr. V. M. Yagnik) for providing assistance in terms of free transportation of canal water from Narmada main canal to experimental site (at Nirma University campus) through their departmental tanker I also thank him for all valuable help and guidance received during preparation of this thesis.

I sincerely acknowledge thanks to Dr. D T. Shete and Dr. A S Patel (MSU) for providing me active support and valuable suggestions during research work.

I am fortunate to have Dr H. V. Trivedi, Dr. G. N. Gandhi, Prof A. B Patel, Prof. Kanad Bandyopadhayay, Prof. H. N. Prajapati and Dr. S. Raman as they have taken keen interest and provided me valuable suggestions for conducting this research work.

I would like to record my sincere appreciation to Dr A S Patel and Prof. N. K. Joshi (NUS&T) who inspired me to pursue the research study and constantly encouraged me to carry out the same efficiently.

I am very thankful to my colleagues at IDS, Nirma University of Science and Technology for their wholehearted support and timely help in research work.

I am also grateful to Dr. C A Brebbia, Director, Wessex Institute of Technology, U.K for giving important tips from point of view of analytical methods and providing notable E-Library learning sources comprising transactions of Wessex Institute for research study

I would like to sincerely thank to Mr J. B. Patel for providing valuable guidance on analysis of socioeconomic impacts.

I do not have words to appreciate Shri Suresh Pareek who helped me lot in analyzing voluminous experimental data using software

I wish to thank Dr R J Bhatt, Dr Shailesh Patel and Dr Nitin Shah for providing guidance regarding statistical design and analysis

I am grateful to Mrs Faluguni Parekh for her active support in my research work. My special thanks to Mr Jignesh Vyas for the help in carrying out computerized data entry task for thesis preparation. I am thankful to Mr. G. K. Patel who greatly assisted me in my study. I am also thankful to Shri T. M. V. Suryanarayana, Shri R. K. Prajapati and other staff members of WREMI for the help provided to me in my study.

I have received excellent support from NEERI Library, British Library, and Meteorological Centre, Ahmedabad

I thankfully acknowledge the excellent cooperation provided by Ms Usha Patel, Mrs Jyoti Patel and late Mr Krunal Patel in pursuing my research study

I would like to convey my best regards to my beloved parents for their tireless efforts in bringing me to this important stage

Last but not the least, I am grateful to my wife for her personal sacrifice and constant encouragement throughout this research work

Finally, I request to kindly pardon me for not acknowledging the help provided to me directly or indirectly

Place: Ahmedabad

(J. S. Patel)

Date: 15/02/2006