## **ACKNOWLEDGEMENTS**

I express my deep sense of gratitude to my role model and my guide **Dr. BasudevMandal**, Assistant Professor, Department of Aquaculture Management and Technology, Vidyasagar University, a kind gentleman, for his unparalleled teaching professionalism, research prowess and trust in my abilities, as he supervised this work to ensure that it met requirements worthy of the degree of Ph.D. I also wish to record my appreciation for the intellectual freedom he gave me, and the moral support which helped me in all the ways to complete my thesis.

I deeply thanks my co-guide **Dr. AshisGupta,**Principal of SevayatanSikhanMahavidyalaya for permitting me to carry out this research successfully for their inspiring guidance and supervision, deep interest, constant encouragement, valuable suggestions and constructive comments throughout the research period.

I would like to begin the acknowledgement by thanking the Almighty GOD, for the numerous blessing. He has bestowed on me and upon the humankind in the form of 'Life on Earth'.

I want to thank the Department of Aquaculture Management and Technology, Vidyasagar University for giving me the privilege to be a student of the department, do the necessary research work and to use the departmental resources.

I am very much grateful to Honorable **Professor RanjanChakrabarti**, Vice-Chancellor, Vidyasagar University and **Dr.Jayanta Kishore Nandi**, Registrar, VidyasagarUniversityfor providing laboratory and library facilities during the investigation.

I am bound to express heartfelt thanks to **Dr. Basudev Mandal,**In-Charge, Department of Aquaculture Management and Technology for offering facilities to carry out this investigation and for his valuable advice, encouragement and involvement in my research.

iv

Indeed, it is an immense pleasure for me to express my extreme gratitude to **Dr. Prasanta KumarBhunia,** Assistant Professor,Department of B.P.Ed., Garhbeta College,Garhbeta,PaschimMedinipur,who contributed his valuable time and efforts to proofreading my research manuscripts and always boosted me while facing any difficulty and going through stressful hours in my present venture.

I humbly acknowledge **Dr. JoydevMaity**, Assistant Professor, Department of Aquaculture Management and Technology, Vidyasagar Universityfor his consistent encouragement inspires me to pursue this study.

My gratitude and thanks are also extended to **Dr. M. K. Pati**, Assistant Professor, Department of Aquaculture Management and Technology, Vidyasagar University for his help in carrying out my research work.

I wish express my deep sense of gratitude and special thanks to **Dr. Pinaki Das**, Assistant Professor, Department of Economics, Vidyasagar University for the timely help with multivariate analysis.

I wish to thank **Dr.BabulalSasmal**, Technical Assistant, Department of Aquaculture Management and Technology, for lending the glass wares and other equipments, whenever needed.

I thank my husband Mr. **Shubhra Das,** Block Technical Manager, Govt. of Agriculture,Malda and my beloved Daughter **Samriddhi Das**for their unfathomableunderstanding, and for sparing me from the day to day family responsibilities.

It is my bounden duty to express my indebtedness to my Father Late Tapan Kumar Maity, my Mother Smt. PragatiMaity, my Sister RitwikaMaity, my friendly Brother JoydeepTripathy, my Father in law SriHaren Chandra Das and Mother in law Smt. Sabitri Dasand their families, whom I wish to thank especially for the prolonged patience they have shown during the

v

entire period of research work, and that made it possible for me to devote all my time and attention in research.

I wish to express my thanks to my fellow research scholars, NabanitaChakrobarty, Sourabh kr. Dubey, PijushPayra, Ajanta Sarkar, Joydeep Das, for their good wishes and help.

I am also thankful to a local bloke **Sri Ananda Manna** who served immensely the field orient pursuits of my research venture.

I thank many others as well, whom space, unfortunately, does not allow me to mention. They helped me in differing degrees, were always available and allowed me to profit from their experience during numerous, friendly exchanges with them.

[Mrs. RiyankaMaity]

Date:

Place: