

ACNOWLEDGEMENT

My whole heart is whelmed with thanks to the '*Word of Life*', who has empowered me to complete the thesis fruitfully.

With great pleasure and indebttness I express my immense gratitude to my beloved supervisor and guide **Dr. A.P. LIPTON**, Principal Scientist, Central Marine Fisheries Research Institute, Vizhinjam Research Centre, Vizhinjam - 629521, for suggesting this problem, providing able guidance and sensible assesment in my progress and his wordings, which has enabled me to pursue and achieve the target.

I am very grateful and thankful to my beloved co-guide **Dr. S. LAZARUS**, Former Prof. and Head, Institute for Coastal Area Studies, M.S. University, Nagercoil, for his guidance and constant help in utilizing the laboratory facilities in ICAS, providing valuable suggestions and constant encouragement.

I am very grateful to most respectful **Dr. M. DEVARAJ**, Scientist Emeritus and former Director of CMFRI, for his valuable suggestion and timely help in my progress.

With prayer and love, I thankfully remember my beloved subject co-guide late **Dr.K. RATHINAM** Group leader, Toxicology Division, Sree Chitra Thirunal Institute for Bio-medical Technology, Thiruvananthapuram.

I express my sincere thanks and gratefulness to the dedicated sponge taxonomist, **Dr. P.A. THOMAS**, Principal Scientist, CMFRI, Vizhinjam for his immense help and guidance in indentifying and collecting correct species for my work.

I am thankful to **Dr. N. KALIAPERUMAL** Principal Scientist and Dr. S. Kalimuthu, Technical Officer, Mandapam Regional Centre of CMFRI for the indentification of seaweeds.

I am grateful for Prof. **Dr. N. SUKUMARAN**, Professor and Head, S.P.K. Centre for Environmental Sciences, M.S. University, Alwarkurichi, for his guidance in initiating of my research career in Aquaculture.

I am very grateful and thankful to **Dr. S.G. PRAKASH VINCENT**, Lecturer, ICAS, M.S. University, Nagercoil for his timely help and guidance in shrimp immunology and various techniques.

I am very thankful to **Mr. EKANATHAN**, Chief Drug Analyst, DTL, Trivandrum for his kind help in analysing antibiotic residues.


I am thankful to **Prof. Dr. M. PETERMARIAN**, Head ICAS, Nagercoil and **Dr. G. GOPAKUMAR, Mr. R. THIAGARAJAN**, and **Mr. S. KRISHNAPILLAI**, Principal Scientists, VRC of CMFRI, Vizhinjam for their unfailing encouragement and help during the period of study.

My heartily thanks to my beloved friend **Mr. ADLOUS J. HUXLEY**, SRF, DBT-Project, VRC of CMFRI, for his infallible and impressive help.

I am glad to thank **Mr. A. UDAYAKUMAR**, Technical Assistant, VRC of CMFRI for his kind help in the laboratory and field shedules. I thank my friends, **Ms. S. PREMILA, Mr. S. THAMPIRAJ** and **Mr. A.N. RAJAN** for their unforgettable help. I thank to **Mr. K. SILVADHASAN** for his constant help in maintaining shrimps in the wet laboratory.

Finally I express my sincere thanks to the **MARS COMPUTERS**, Marthandam for the neat data processing and printing of the thesis.

Place : Vizhinjam,
Date : 31.10.2009



(**J. SELVIN**)