

Name of Expert	Name of Organisation, and Status (e.g. Municipality, NGO, University, private, etc.) (if independent consultant, please state)	Position in the Project (e.g. Project Co-ordinator, Project Manager, Technical Specialist, etc.)	Field of Expertise
Dr.P.Nammalawar	<p>i. Former Principal Scientist Central Marine Fisheries Research Institute (ICAR-Govt.of India), Cochin, Kerala, India</p> <p>ii. Independent Consultant - (Fisheries, Aquaculture Environment Management)</p> <p>iii. Convener – Tsunami Relief and Rehabilitation Co-ordination (TRRC) – Regional Centre for Education, Environment and Development Alternative (CEEDA), Chennai, Tamil Nadu, India.</p> <p>iv. Advisor – Non - Governmental Organisations (NGOs), Chennai, Tamil Nadu, India</p> <p>v. Project Leader – DST project, Aquaculture Authority (Ministry of Agriculture, Govt.of India), Chennai, Tamil Nadu, India.</p> <p>vi. Project Leader – INCOIS project (Ministry of Earth Sciences), Institute for Ocean Management, Anna University, Chennai, Tamil Nadu, India.</p> <p>vii. Member- Advisory Committee, Thiruvalluvar University, Vellore, Tamil Nadu, India.</p>	Project Manager	<p>1. Micro and macro level survey on the impact of tsunami on coastal ecosystems along the coastal districts of Tamil Nadu, India.</p> <p>2. Conservation assessment and Biodiversity management plan for mangroves and coral reefs.</p> <p>3. Marine pollution monitoring, Protection and environmental physiology.</p> <p>4. Marine aquaculture (fin fishes) production and farm management.</p> <p>5. Coastal fisheries assessment and management of marine fisheries resources.</p> <p>6. Conservation and Management of Marine Mammals</p> <p>7. Potential Fishing Zone (PFZ) Advisories along the Chennai coast, Tamil Nadu</p>

Curriculum vitae

1	Family name	RAJAN		
2	First name	DR.P.NAMMALWAR		
3	Date of birth	26.06.1943		
4	Nationality	INDIAN		
5	Civil status	MARRIED		
6	Education / Professional studies			
	Dates (from-to)	Institution	Degree/diploma	
6(a)	June 1962 – May 1965	The American college Madurai (University of Madras), Tamil Nadu, India	B.Sc. (Zoology/Botany)	
6(b)	June 1965 – May 1967	Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India	M.Sc. Marine Biology/Fisheries biology)	
6I	Feb. 1978 – march 1982	University of Madras, Chennai, Tamil Nadu, India	Ph.D. (Marine Biology /Eco – Physiology)	
7	Language skills Grade skill 1-5 (1 = basic, 5 = excellent, * = mother tongue)			
	Language	Speaking	Reading	Writing
	English	5	5	5
	French, etc.	-	-	-
	*Tamil	5	5	5
	Hindi	4	4	4
8	Membership of professional bodies			
	Zoological Society of India; Marine biological Association of India; Academy of Environmental Biology of India; World Aquaculture Society; Society of Aquaculture Professionals; International Cetacean Society; Network of Tropical Aquaculture Scientists; The Fisheries Technocrats Forum.			
9	Other Skills			
	Social Service Organizations- The International Association of Lions Clubs, Madras Book club International, World Constitution and Parliament Association, Bharat Vikas Parishad, Indian Officers Association			
10	Name of Organization previously working for and position in the organisation	Name of Organisation: Aquaculture Authority of India, Chennai – 600006 (Ministry of Agriculture, Govt. of India) Position in the Organization: Principal Investigator / Project Leader		
11	Years with the organisation	3 years (2003-2006)		
12	Name of Organization presently working for and present position in the organisation	Name of Organisation: Institute for Ocean Management, Anna University, Chennai – 600025 (INCOIS Project, Ministry of Earth Sciences, Govt. of India) Present position in the Organization: Principal Investigator / Project Leader		

13	Years with the Organisation	2006 onwards – Continuing	
14	Key Qualifications (relevant projects which he/she has directed or in which he/she has been involved)		
	List enclosed – Annexure I		
15	Experience in specific Asian countries/territories		
	Country	Date	Details
	India	Oct. 1967- June 2003 (35yrs)	Enclosed – Annexure II
	Singapore	Sept. – Oct. 1986	Enclosed– Annexure II
	USA	Nov. 1998	Enclosed– Annexure II
	USA	June 2001	Enclosed– Annexure II
	USA	June 2003	Enclosed– Annexure II
16	Professional experience record (mainly in one of the Areas of Activity)		
16(a)	Location	Date	Organisation
	India	Oct. 1967- June 2003	Central Marine Fisheries Research Institute (ICAR – Govt. Of India), Cochin, Kerala, India
	Position	Principal Scientist	
	Responsibilities	Leading a group of 15 scientist and Research Fellows involved in various government and commercial projects in Marine Fisheries, Aquaculture, Marine Pollution Monitoring and Marine conservation and Management. Faculty member in several universities in India. Participated and presented papers in several National and International seminars/symposia/conferences in India, Southeast Asia.	
16(b)	Location	Date	Organisation
	Position		
	Responsibilities		
17	Publications - 80 – Research papers ; 30- Popular articles ; 1 Book		
	Publisher	Date	Title
	Details enclosed – Annexure –III		

Annexure – I

Key Qualifications

(Relevant projects, which he/she has directed or in which he/she has been involved)

S.no	YEAR		Name of the Project	Position
	From	To		
1.	1967	1969	Survey / Statistics marine fishery resources assessment	Research Associate
2.	1970	1973	Studies on fishery biology of the perch, <i>Pomadasys hasta</i> (Bloch)	Research Associate
3.	1974	1975	Studies on fishery biology of the commercially important ribbon fishes	Research Associate
4.	1975	1978	Studies on the fishery and resources characteristics of the Indian mackerel, <i>Rastrelliger kanagurta</i> (Cuvier)	Research Associate
5.	1975	1978	Survey of molluscs (Bivalves), prawns and fish seed resources	Research Associate
6.	1977	1978	Coastal aquaculture – pen culture of fishes and prawns	Research Associate
7.	1977	1978	Induced breeding of milkfish, <i>Chonas chonas</i> and its seed production.	Research Associate
8.	1978	1982	Some aspects of ecophysiology and biological concerns of the estuarine grey mullet, <i>Liza macrolepis</i> (Smith) with reference to heavy metals pollution	Senior Research Fellow (ICAR)
9.	1982	1983	Evaluation of the fishery and resources characteristics of the Indian mackerel <i>Rastrelliger kanagurta</i> (Cuvier)	Research Associate
10.	1982	1983	Evaluation of the fishery and resources characteristics of carangids	Research Associate
11.	1983	1990	Mariculture – Marine finfish culture	Project Leader
12.	1984	1988	Development of hatchery techniques for finfishes – seed production of mullets and milkfish.	Project Leader
13.	1984	1988	Studies on the marine mammals – Investigations on whales, dolphins, dugongs, their conservation and management.	Research Associate
14.	1988	1989	Fish and shellfish nutrition – Development, evaluation and farm trail of compounded feeds for fish and prawns	Research Associate
15.	1988	1990	Investigations on the exploited resources of threadfin breams	Research Associate
16.	1990	1994	Finfish seed production – Induced	Project

			breeding and seed production of Seabass	Leader
17.	1992	1994	Composite seafarming – Seafarming of molluscs, seacucumber, seabass, groupers, seaweeds and prawns	Research Associate
18.	1994	1998	Monitoring the resource characteristics of groupers, snappers and pigface seabreams.	Research Associate
19.	1994	1998	Monitoring the resource characteristics of catfish	Research Associate
20.	1994	2002	Investigations on the impact of coastal bottom trawling on demersal fishes and macro-benthos	Research Associate
21.	1996	1999	Development of artificial seawater for aquaculture.	Research Associate
22.	1996	1998	Studies on mangrove ecosystem of Gulf of Mannar islands and their influence on larval / seed recruitment of economically useful fishes and prawns (Sponsored project by Ministry of Environment and Forests, Govt. of India)	Principal Investigator
23.	1998	2000	Development of GIS based information system for critical coastal, marine habitats collection of qualitative and quantitative data on fisheries in Gulf of Mannar (Sponsored project by Dept. of Ocean Development, Govt. of India)	Principal Investigator
24.	1998	2002	Culture of groupers, snappers, seabreams, rabbit fishes and ornamental fishes	Project Leader
25.	2002	2003	Mariculture – Marine Finfish culture	Project Leader
*26	Oct. 2003	Ongoing	Global aquaculture development and environmental management (Sponsored by DST– Govt. of India)	Principle Investigator
*27.	Jan. 2005 -	March 2005	Secondary and primary data from tsunami affected coastal villages in Northern Districts of Tamil Nadu (Sponsored by Centre for Environment, Education and Development Alternative-CEEDA Trust)	Convener
*28.	April 2005	June 2005	Survey of potential cage-culture sites along the coast of Kancheepuram District, Tamil Nadu. (Sponsored by The Catalyst Trust – NGO)	Project Leader
*29	August 2005	Dec. 2005	Economic feasibility of finfish cage-culture in the estuaries and backwaters – Kancheepuram District, Tamil Nadu	Project Leader

*30	October 2006	Ongoing	Potential Fishing Zone (PFZ) Advisories along the Chennai coast, Tamil Nadu sponsored by INCOIS, Ministry of Earth Sciences, New Delhi	Project Leader
*31	July 2007	Ongoing	Development of Database on Coastal Information of Tamil Nadu, Dept. of Environment, Govt. of Tamil Nadu.	Project Leader

* Projects after superannuation

ANNEXURE II

	Country	Date	Details
	Research experience - India	1967-2003	<p><u>i.. Survey:</u> Assessment of region – wise and species – wise yield on marine fish for development, conservation and management of marine fishery resources were carried out at Bombay</p> <p><u>ii. On board:</u> Participated in many fishing operations/cruises of the exploratory fishing vessels of Government of India, research vessels (FORV Sagar Sampada) of Department of Ocean Development and Vessels (Cadamin) of Central Marine Fisheries Research Institute, for the collection of fishery and environmental data.</p> <p><u>iii. Phd Thesis:</u> Some aspects of ecophysiology and biological concerns of estuarine grey mullets, <i>Liza macrolepis</i> (Smith) with reference to heavy metals pollution.</p> <p><u>iii.a. Research :</u> Thirty five years research experience in the fields of marine fisheries, fishery biology, marine biology, marine pollution, marine mammals, conservation and management of mangroves and coral reefs, marine aquaculture, farm management and production including formulation of research project proposals and</p>

			<p>published 80 research papers, 30 popular articles in National and International scientific journals and 1 book.</p> <p><u>iv. Teaching :</u> Worked /served as a faculty member in the teaching programme for both M.Sc. & Ph.D courses of the Post-Graduate programme in Mariculture of Central Marine Fisheries Research Institute, Cochin and M.Sc. course in Environmental Toxicology and Aquaculture in University of Madras. Recognized as supervisor by the Madurai Kamaraj University and the University of Madras, India. Recognised as Supervisor& Guide by the Madurai Kamaraj University and University of Madras, India and Guided Ph.D students in fishery biology, Marine Biology, Environmental physiology and Marine Aquaculture. Participated in various extension programmes, symposium, workshops and seminars conducted by various organizations</p> <p><u>v. In service/ Abroad training</u></p> <p>(a) Participated in the workshop on ‘water quality management in Aquaculture’, Centre of Advance Study in Mariculture, Central Marine Fisheries Research Institute (ICAR), Cochin, India.</p> <p>(b) Participated in the summer institute on ‘Application of innovative instructional technology for optimizing learning, teaching in Indian Agricultural University System”, National Academy of Agricultural Research- Management (ICAR), Hyderabad. India.</p> <p>(c) Participated in the workshop on conservation assessment and</p>
		Dec.10-Dec 13,1984.	
		June. 5 – June 24,1995.	
		July 21-July 25, 1997.	

			management plan for Indian mangrove ecosystem, National Institute Oceanography, Dona Paula, Goa, India .
	Singapore	Sep.1- Oct 10,1986.	Participated in the workshop on 'Net cage culture of marine finfish' at the Marine Aquaculture Unit, Primary Production Department, Singapore, under FAO/UNDP-NACA/IDRC - Sponsored programme.
	USA		Visiting scientist programs on Aquaculture in the International Centre for Aquaculture and Aquatic Environments, Auburn University, Alabama (USA); Aquaculture programmes in Harbor Branch Oceanography Institution, Fort Lauderdale, Florida (USA); Marine Aquaculture Programmes in Rosentiel School of Marine and Atmospheric Science, University of Miami, Florida (USA)

ANNEXURE III

PUBLICATIONS

S.No	Publisher	Date	Title
1.	Science Culture	1973	A short note on the biometry of <i>Nemipterus japonicus</i> (Bloch) in relation to sex in Porto Novo waters.
2.	Indian Journal of Fisheries	1974	A note on the determination of age from skeletal structures of <i>Pomadasys hasta</i> (Bloch)
3.	Indian Journal of Fisheries	1976	Note on hyperostosis in the perch <i>Pomadasys hasta</i> (Bloch)
4.	Journal of Marine Biological Association of India	1976	Record of the sunfish, <i>Masturus oxyurpterus</i> (Bleeker) from Indian Coast
5.	Indian Journal of Fisheries	1977	A note on parasitised ovaries in the perch, <i>Pomadasys hasta</i> (Bloch)
6.	Science & Culture	1977	Effects of varying salinities and body weight changes in an estuarine crab, <i>Uca annulipes</i> (Milne- Edwards)
7.	Science & Culture	1977	Note on osmoregulatory changes in an estuarine nudibranch mollusc, <i>Onchidium verraculatum</i> of Porto-Novo
8.	Indian Journal of Fisheries	1977	Some planktonic foraminifera from the Gulf of Mannar
9.	Science & Culture	1977	Influence of temperature and salinity on oxygen consumption of <i>Tilapia mossambica</i> (Peters)
10.	Science & Culture	1977	Instances of caudal fin deformity in some fishes of Bombay waters
11.	Science & Culture	1978	Blood sugar estimation in estuarine crab <i>Scylla serrata</i> (Forskal)
12.	Matsya	1978	An instance of regenerated scale in the perch, <i>Pomadasys hasta</i> (Bloch)
13.	Journal of Bombay Natural History Society	1978	Description of isopod <i>Cirolana parva</i> Hansen parasitic on the eye balls of dolphin, <i>Delphinus delpis</i> Linnaeus with a key
14.	Science & Culture	1981	An interesting case of blindness of eyes in mullet, <i>Liza macrolepis</i> (Smith) from Adyar estuary, Madras
15.	Marine Fisheries Information service, T&E Ser.	1983	Junvenile whale shark, <i>Rhincodon typus</i> (Smith) caught at Keelakari, Gulf of Mannar
16.	Marine Fisheries Information service, T&E Ser.	1986	Report on the catch of juvenile whale shark, <i>Rhincodon typus</i> (Smith) at Keelakari, Gulf of Mannar
17.	Marine Fisheries	1986	On two junvenile whale shark, <i>Rhincodon typus</i>

	Information service, T&E Ser.		(Smith) caught at Keelakari, Gulf of Mannar
18.	Proc., Symp. Aquaculture, Cochin	1986	Oxygen consumption of young Olive Ridley turtle, <i>Lepidochelys olivacea</i> (Eschscholtz)
19.	Marine Fisheries Information Service, T & E Ser.	1989	On an unusual heavy landings of cat fish <i>Tachysurus dussumeri</i> (Valenciennes) at Kasimedu, Madras
20.	Marine Fisheries Information Services, T & E Ser.	1989	Instances of landings of whale shark, <i>Rhincodon typus</i> (Smith) in Indian coastal waters
21.	Proceedings. Workshop. Scientific Results FORV Sagar Sampada	1989	Occurence of King Crab <i>Tachypleus gigas</i> (Muller), of the northeast coast of India
22.	Marine Fisheries Information Service, T & E Ser	1992	Instances of whale shark, <i>Rhincodon typus</i> (Smith) caught along Tamil Nadu coast
23.	National Academy of Agricultural Research Management, Hyderabad	1992	Planning and development of marine fisheries research centre, Workshop On Management of Agricultural Research Stations (1. Operations - Management)
24.	Proceeding Workshop Scientist Result FORV Sagar Sampada, Department of Ocean Development, Govt. of India New Delhi.	1994	Finfish resources in the northeastern region in the Indian EEZ
25.	Proceedings. II Workshop. Scientific Results FORV Sagar Sampada, Department of Ocean Development, Govt. of India New Delhi.	1994	Demersal finfish resources in certain areas of the EEZ of Southwest and southeast coast of India
26.	ICLARM Conference Proceedings	1996	Groupers and Snappers of India: Biology and Exploitation. In: Biology, fisheries and culture of tropical, groupers and snappers (Eds). F. Arreguin- Sanchez, J.L Manro, M.C. Balgos and D. Pauly.
27.	Publication No.1- School of Industrial Fisheries, Cochin University of Science and Technology, Cochin	1998	The non-conventional finfish resources of Indian EEZ. In. Technological Advancement In Fisheries (Eds). Hameed, M.S. and S.M. kurup.
28.	In: Marine Fisheries	2000	Exploited resources of major perches in India.

	Research and Management (Eds) . Pillai, V.N and N.G. Menon, CMFRI, Cochin		
29.	Proceedings International Workshop. Cage Pen Culture, SEAFDEC, Iloilo, Philippines.	1979	Culture of fishes in cages and pens along with coastal waters of India.
30.	Proceedings Symposium Coastal Aquaculture, Cochin.	1985	Fish culture in pens in the Gulf of Mannar, India
31	Indian journal of fishery	1986	Preliminary experiments on monoculture of milkfish, <i>Chanos chanos</i> (Forsk.) and on polyculture of it with tiger prawn, <i>Penaeus monodon</i> Fabricus in the mariculture Farm of CMFRI, at Muttukadu, Madras
32.	Marine Fisheries Information Service, T & E Ser	1989	The prawn, fish and molluscan seed resources along the Kerala and Tamil Nadu coasts.
33	Workshop on Breeding and seed production, Central Institute of Brackishwater Aquaculture, Madras	1989	Environmental control for induced maturation
34.	CMFRI Bulletin	1990	Present status on induced breeding of marine fishes in India
35.	CMFRI Bulletin	1990	A review of marine finfish culture research in India
36.	Marine Fisheries Information Service, T & E Ser.	1991	Seed production and commercial culture of the Seabass, <i>Lates calcarifer</i> (Bloch) at Singapore and its lessons for India
37.	In: Aquaculture Productivity (Ed.) V.R.P Sinha and H.C. Shrivastava, Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi	1991	Farm development and management for marine finfish culture at Muttukadu near Madras
38.	Journal of Marine Biological Association of India	1991	Finfish seed resources of Adayar estuary and Kovalam backwater around Madras, India
39.	Marine Fisheries Information Service, T & E Ser.	1992	The survey of Valinokkam Bay and adjoining area to assess its suitability for integrated seafarming – A report

40.	India's first Aquaculture Show, INDAQUA, 20-22 March 1993, Madras, Marine Products Export Development Authority, Cochin, India.	1993	Milkfish and grey mullet culture in India.
41.	Journal of Marine Biological Association of India	1994	Availability of grey mullet spawners in Adyar estuary and Kovalam backwater around Madras, India
42.	Proceedings on National Symposium Aquaculture for 2000 A.D (Ed) Samuel Paulraj, Madurai Kamaraj University, Madurai	1994	A review of the systems for culture of marine finfishes in India.
43.	Proceedings of National Conference on Sustainable Aquaculture (Ed) S. Ramachandran, Centre for Water resources and Ocean Management, Anna University, Madras.	1994	Present status of marine finfish culture development in India
44.	The Fourth Indian Fisheries Proceedings	1996	Collection, transport and maintenance of Asian Seabass, <i>Lates calcarifer</i> (Bloch)
45.	In: Coastal Environment and Aquaculture, (Ed) N.Rajalakshmi, Department of Economics, University Of Madras	2002	Eco-friendly and sustainable aquaculture technology development management issues in India
46.	Science & Culture	1976	Mortality of fishes due to oil tanker disaster in Gujarat coast
47.	Science & Culture	1978	Mass mortality of fishes due to the bloom of <i>Trichodesmium thiebautti</i> Gomont in the Gulf of Mannar coast
48.	Science & Culture	1984	Pollution induced fish kills in Adayar estuary, Madras- A case study
49.	Proceedings of Seminar. Effect of	1984	Biochemical changes resulting from bioassay of pesticides DDT and BHC to the estuarine

	Pesticides on Aquatic Fauna, Mhow India.		mullet, <i>Liza macrolepis</i> (Smith)
50	Proceedings of Seminar. Effect of Pesticides on Aquatic Fauna, Mhow India	1984	Bioassay studies on the estuarine mullet <i>Liza macrolepis</i> (Smith) with reference to DDT and BHC
51.	Proceedings of Symposium. Assessment of Environmental Pollution. Marathwada University, Aurangabad India	1985	Heavy metals pollution in Adyar estuary Madras
52.	Marine Fisheries Information Service, T & E Ser	1985	An instance of mass mortality in the Muttukadu Farm near Madras during 1983
53.	Marine Fisheries Information Services, T & E Ser	1986	Water pollution and mass mortality in Ennore estuary
54.	Proceedings. National Seminar. Perspectives. Hydrobiology, Vikram University, Ujjain, India.	1986	Effects of heavy metals, mercury and cadmium on the biomass of gills, liver and muscle tissues of the estuarine mullet <i>Liza macrolepis</i> (Smith)
55.	Proceedings National Conference on Environmental Biosystem Loyola College, Madras.	1987	Environmental pollution problem in the Coastal estuaries around Madras – A case study
56.	Proceedings National Seminar Estuarine Management Trivandrum, India.	1987	Pollution impact and management of the coastal estuaries around Madras
57.	Tropical Ecosystems – Ecology and Management (Eds) K. P. Singh and J. S. Singh, Wiley Eastern Limited, New Delhi	1992	Field bioassay studies for environmental management in Cooum and Adyar estuaries around Madras, India.
58.	Proceedings of National Symposium on Electrochemistry in Marine Environment, Central Electro Chemical	1995	Pollution problems of coastal ecosystems in India

	Research Institute, SAEST Madras Chapter.		
59.	Proceedings of Fourth National Symposium on Environment, Madras.	1995	Ecotoxicological effects of Industrial Pollution on the estuarine grey mullets with reference to Aquaculture along Madras coast.
60.	Marine Fisheries Information Service, T & E Ser	1982	Stranding of sperm whale, <i>Physeter catodon</i> (Linnaeus) at Tranquebar.
61.	Proceedings. Symposium. Endangered Marine Animals and Marine Parks, Cochin	1985	On the food of stranded sperm whale, <i>Physeter macrocephalus</i> Linnaeus at Tranquebar with a note on food habits of whales.
62.	Marine Fisheries Information Service, T & E Ser	1983	Fin whale, <i>Balaenoptera physalus</i> (Linnaeus) washed ashore in Rameshwaram.
63.	Marine Fisheries Information Service, T & E Ser	1984	Stranding of false killer whale, <i>Pseudorca crassidens</i> at Rameshwaram, Gulf of Mannar.
64.	Marine Fisheries Information Service, T & E Ser	1989	On a sperm whale, <i>Physeter macrocephalus</i> Linnaeus stranded at Madras.
65.	Marine Fisheries Information Service, T & E Ser	1989	On the strandings of whales along the Tamil Nadu and Andhra Coast
66.	Marine Fisheries Information Service, T & E Ser	1992	On the stranding of sperm whales at Nagapattinam along the Tamil Nadu coast.
67.	Marine Fisheries Information Service, T & E Ser	1992	On the stranding of Sei whale, <i>Balaenoptera borealis</i> Lesson at Mandapam along the Palk Bay coast.
68.	Marine Fisheries Information Service, T & E Ser	1994	Instance of finless black porpoise, <i>Neophocaena phocaenoides</i> caught in Mandapam region along the Palk Bay coast in Tamil Nadu.
69.	Journal of Marine Biological Association of India	1995	The incidental by-catch of Dolphins at Fisheries Harbour, Cochin with a note on their conservation and management in India.
70.	The Fifth Indian Fisheries Forum Proceedings. Asian Fisheries Society. Indian Branch, Mangalore and Association of Aquaculturists,	2000	Studies on the distribution of mangroves in the island ecosystems of Gulf of Mannar, Tamil Nadu, India

	Bhubaneswar		
71.	The Fifth Indian Fisheries Forum Proceedings. Asian Fisheries Society. Indian Branch, Mangalore and Association of Aquaculturists, Bhubaneswar	2000	Influence of mangroves on the seed resources of economical useful fishes and prawns in the island ecosystems of Gulf of Mannar, Tamil Nadu, India
72.	CMFRI Special Publication. No.74	2002	Bibliography of the Gulf of Mannar.
73.	Marine Fisheries Information Service. T&E, Ser.	2002	Report on a sperm whale, <i>Physeter macrocephalus</i> (Linneaus) caught at Chennai coast.
74.	Central Marine Fisheries Research Institute, Cochin. Marine fisheries information service	2002	On false killer whale <i>Pseudorca crassidens</i> (Owen) caught at Ennore along the Chennai coast.
75.	The Fifth Indian Fisheries Forum Proceedings. Asian Fisheries Society. Indian Branch, Mangalore and Association of Aquaculturists, Bhubaneswar	2002	Spawning seasonality of major fishery groups along Tamil Nadu and Andhra coast
76.	The Fifth Indian Fisheries Forum Proceedings. Asian Fisheries Society. Indian Branch, Mangalore and Association of Aquaculturists, Bhubaneswar	2002	Marine fishery resources off Chennai: Landings by day and night trawlers
77.	Proceedings.Tenth Regional seminar. Breeding techniques for mass production of fish seeds	2002	Breeding and seed production technology development of cultivable marine finfishes with reference to groupers
78.	Journal of the Bombay Natural History Society, Bombay	Sept. 2004	Status of sea- cow <i>Dugong dugon</i> (Muller) along the Southeast Coast of India.

79.	Proceedings of the International conference of Exposition on marine living resources of India for food and medicine published by Aquaculture Foundation of India, Chennai	2005	Finfish aquaculture in India
80.	Proceedings of the International Conference on Tsunami, Disaster management and coastal development. Madras Development Society, Chennai	2005	Impact of tsunami waves disaster and management along the Indian coast with reference to Tamilnadu.
81.	Proceedings of the National Conference on Tsunami and Disaster management, Loyola College, Chennai	2005	Awareness on tsunami waves disaster and management - A review

Popular Articles

Publisher	Date	Title
Seafood Exports Journal,	1973	The resources of the Ocean with special references to Indian Ocean.
Science Reporter	1974	Life in the deep sea.
Science Reporter	1974	Oil pollution in the sea.
Science Reporter	1976	Whales, Dolphins and Porpoises of the Indian Coasts.
Science & Culture	1977	Seafood Industry in India.
Science & Culture	1978	Ocean – a solution for India and the world.
Seafood Export Journal	1979	Present status and problems of the fishermen in the marine fishing industry.
Science & Culture	1980	Wealth of the Sea.
Seafood Export Journal	1980	Problems of diseases on marine fish and prawn farming in India.
Publ.Coll.Sci.Impt. Prog. Univ. Madras. Dialogue	1980	Pollution and aquaculture.
Science Reporter	1983	Heavy metals pollution in the marine environment.
Science Reporter	1984	Pesticides pollution in marine environment.
Proc. Publ. Diss. Environ. Probl. Madras, India.	1985.	Environmental problems of Tamilnadu.
Bull. Aquaculture, Ass. Canada	1988	Marine aquaculture development in India.
In: Proceedings of Third Indo-Dutch workshop on Aquatic Ecotoxicology, 18 February – 15 March, 1991 Centre for Environmental Studies, Anna University, Madras, India.	1991	Ecotoxicology and its impact on marine ecosystems.
In: Proceedings of the Industries Get-together on salt, seaweeds and saline plants, 28-29, May. 1993, Central Salt & Marine Chemical Research Institute, Marine Algal Research Station, Mandapam, India.	1993	Marine finfish culture prospects along the Ramanathapuram coast in Tamilnadu.

Regional Seminar on Conservation of coral reefs in the Gulf of Mannar, Kamaraj College, Tuticorin, India.	1996	Conservation and management of coral reefs in the Gulf of Mannar, Tamil Nadu – A review.
Proceedings of the workshop, National Aquaculture week, Aquaculture Foundation of India, Chennai.	1997	Prospects of grouper culture in India.
Proceedings of the workshop, National Aquaculture week, Aquaculture Foundation of India, Chennai.	1997	Seabass hatchery.
Indo-Egyptian the workshop on oceanography with exclusive focus on Mari culture, 8-9, December 1997, Central Marine Fisheries Research Institute, Cochin, India	1997	Marine finfish culture in India.
Workshop on Environmental Impact Assessment of Aquaculture Enterprises, 10-12, December 1997, Rajive Gandhi Centre for Aquaculture, Marine Products Exports Development Authority of India, Madras, India.	1997	Environmental parameters for analysis of aquaculture enterprises – ecological resources.
Proceedings of International Bioethics workshop on Bioethical Management of Biogeoresources (Eds) Jayapaul Azariah, Hilda Azariah and Darryl R.J. Macer University of Madras, Madras.	1997	Sustainable mariculture for development -Management issues and environment interaction in India.
Manual - Training Course on finfish mariculture, CMFRI, Cochin	1998	Broodstock management and grow-out technologies of major cultivable marine finfishes.
Manual - Training Course on finfish mariculture, CMFRI, Cochin	1998	Induced breeding, hatchery technologies and artificial propagation of cultivable marine finfishes practices followed in India and other countries.

Second National Scientific Seminar in Hindi on small scale fishing and seafarming in India. CMFRI, Cochin	1999	Marine finfish culture in India.
Manual – workshop on techniques in Environmental Toxicology. IBMS, University of Madras, Chennai.	2000	Environmental pollution and its impact on coastal marine ecosystems.
Regional Seminar on productivity of Coral reefs in Gulf of Mannar, Kamaraj College Tuticorin, India	2000	Coral fauna in Gulf of Mannar, Tamilnadu.
Souvenir' 2000, Golden Jubilee celebration of Staff Recreation Club, Mandapam Regional Centre of CMFRI, India.	2000	Mangrove eco-systems of Gulf of Mannar, Tamil Nadu.
Souvenir' 2000, Golden Jubilee celebration of Staff Recreation Club, Mandapam Regional Centre of CMFRI, India.	2000	Marine turtles of Gulf of Mannar, Tamil Nadu.
In: Advances in mariculture in the Indian Context (Ed) Indian Council of Agriculture Research, New Delhi (In Press)	2001	Finfish mariculture

LIST OF RESEARCH PUBLICATIONS / POPULAR ARTICLES OF

**Dr. P. Nammalwar, Project Leader,
Institute for Ocean Management,
Anna University, Chennai- 600 025
(2004-2007)**

- *1. Badrudeen,M., P.Nammalwar and K.Dorairaj 2004. Status of sea-cow, *Dugong dugon* (Muller) along the Southeast coast of India. *J. Bombay Nat. Hist. Soc.*, 101(3); 381-387.
- *2. Nammalwar, P. 2005. Finfish mariculture in India Proc. International conference & Exposition on marine living resources of India for food and medicine. *Published by Aquaculture Foundation of India, Chennai.* pp. 304-310.
- *3. Nammalwar, P.2006 Awareness on Tsunami waves and disaster management. *Proc. National commemorative conference on Tsunami, Madurai Kamaraj University, Madurai, Tamilnadu.* pp. 92-103.
- *4. Nammalwar, p. 2006 Awareness on environment and management Commemorative of 20th year Souvenir. *Published by Bharat Vikas Parishad, Tamilnadu (North) & Pondicherry / Chennai.*pp.75-83
- *5. Nammalwar,P. 2006. Impact of Tsunami waves disaster and management along the Indian coast with reference to Tamilnadu. *Proc. International Conference on Marine and Terrene Ecology (Ed) M.Arunachalam, A.John de Britte and S.M John Kennedy, Jesuits Tsunami Services, Dawn Services.* 21. Dindigul, Tamilnadu.pp.159-184.
- *6. Nammalwar, P.2006. Marine Biodiversity and bioresources for coastal socio-economical development in India. *Proc. International Seminar on Environmental Biotechnology Envirotech -2006.JB.A.S.College for women, Chennai.* Pp.42-53.
- *7. Nammalwar,P. 2006. Glimpses of retirement / senior citizens. *Yadavodhaya, Vol.3, Issue 11, Chennai.* pp. 15-17.
- *8. Nammalwar, P. 2006. Present status on conservation and management of mangrove habitats in the islands of Gulf of Mannar region, Tamilnadu. *National Research and Monitoring Moderation workshop, Gulf of Mannar Biosphere reserve trust, Ramanathapuram, Tamilnadu (Ed) V.K.Melkani, V.Naganathan and R.Uma Maheswari.*pp.48-55.
- *9. Sudararaj.V and Nammalwar. P.2006. Natural Disaster and Management (In Tamil).*Yegam Pathipagam, Chennai.*pp.192
- 10. Nammalwar.P. and V.Edwin Joseph. 2002. Bibliography of the Gulf of Mannar, Central Marine Fisheries Research Institute, Cochin. *Special Publication No.74.* pp204.

- *11. Nammalwar.P. and Jayapaul Azariah 2007. Fishery resources of Pulicat Lake, Thiruvallur Dist. Tamilnadu. CReNIEO, Chennai in (Ed) Jayapaul Azariah. *My Biography Palliacata-The Pulicat 1400-2007*. pp.221-223.
 - *12. Nammalwar.P. and P.Jaishankar, 2007. Potential Fishing Zone (PFZ) Advisories for the coastal fishing community in India. *Sea Queen*, Vol.1.No.5.pp 10-12.
 - *13. Nammalwar.P. V.Sundararaj, K.Pukazhendhi and .T.D.Babu.2007.Conservation strategies and sustainable use of marine biodiversity for coastal socio-economic development in India. *National Symposium on Conservation and Valuation of Marine Biodiversity. Zool. Surv. India*. pp 231-241.
 - *14. Nammalwar, P. and P.Jaishankar 2007, Information on the Indian National Center for Ocean information services (INCOIS), Hyderabad, *Sea Queen (In Tamil)*, Vol 2, No 8, pp 40-42.
-

***Publications after superannuation**