

RAHEEM Padikkala Kandiyl

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Objectives

To be a part of an organization where process of learning never ends and my imagination takes wings to new heights. A place, where initiative, hard work and learning through constructive criticisms are always promoted.

Skills and Abilities

Quick learner and string desire for new methods

Good communication,technical and creative skills

Hard working,Dedicated and inclined to accept additional responsibilities

Easily adaptable to any environment

Educational Qualifications

Degree	Year of Passing	University	Grades obtained
Master of Science Marine Biology	2015	Pondicherry University Department of Ocean Studies and Marine Biology, Brookshabad campus, Port Blair, Andaman and Nicobar Islands	(First class)
Bachelor of Science [Botany with Zoology And Chemistry]	2013	Calicut University,Kerala	(First class)
HSE	2010	Board of Higher Secondary Examination Govt.of Kerala	(First class)
SSLC	2008	Board of Public Examinations, Govt.of Kerala	(First class)

- ❖ Qualified National Eligibility Test Indian Council of Agriculture Research [ICAR-NET] In Fisheries Resource Management in May 2017 and Qualified ARS Main Exam 2017 and attended the Interview In ASRB -ICAR - New Delhi.

Positions Held

Research Fellow -(Mariculture Division) - [01/07/2015-31/03/2018] Vizhinjam Research Centre of CMFRI- Indian Council of Agricultural Research - Central Marine Fisheries Research Institute (ICAR-CMFRI)

Visiting Research Fellow - [14/04/2018 - 10/10/2018] National Changhua University of Education and National Taiwan Ocean University, Taiwan - Aquaculture and Molecular Biology.

Young Professional II -[05/12/18 - 10/02/19] CMFRI,Kochi,Mariculture Division.-Network Project on Marine Ornamental Fish Breeding and Culture .

Research Associate -[19/2/2019 – 30/09/2020] Ministry of agriculture and Fisheries - Aquaculture Research Centre-Mirbat Abalone Hatchery,Sultanate of Oman.

Research Associate – [14/11/2020 – 30/09/2021] Blue Aqua Breeding Centre – Blue Aqua International, Singapore .

Animal Health Biologist – [23/11/2021 – Present] National Aquaculture Group (NAQUA), Al-lith, Kingdom of Saudi Arabia.

Computer Skills

(MS Office,MS Word,Excel,Windows Basic and Internet)

Project Work [Academic – Msc]

- ❖ Done my dissertation on “Diversity, Biology and Habitat utilization of Acanthurid fishes with special reference to *Acanthurus triostegus* along the eastern coast of south Andaman”.
- ❖ Done my survey on “A Preliminary Survey of fish landing at Panighat fish landing centre [Port Blair] with special reference to the Biology of *Amblygaster sirm* .

Training and workshop attended

- 1.Training on cage culture technology demonstration (December 2016) organized by ICAR.
- 2.Proceeding of the 5th International Symposium on Cage Aquaculture In Asia organized by Asian Fisheries Society and ICAR-CMFRI .

3. Training on Recent Advances in Mariculture (January 2017) organized by ICAR-Vizhinjam Research Centre of CMFRI .
4. Proceedings of the International Seminar on Coastal Biodiversity Assessment (COBIA2017) Organized by Department of Zoology, ST Gregorios College, Kottarakara.
5. 1st International Agrobiodiversity Congress (November 2016) Organized by India. Society of Plant Genetic Resources Bioversity International, New delhi, India.
6. Training on Live feed culture with special emphasis on Copepod culture (December 2017) Organized by ICAR-Vizhinjam Research Centre of CMFRI
7. Mieux connaitre les crustacés pathologies, physiologie environnementale et évolution – During 25-29, June 2018 Organized by Taiwan and France held in National Changhua University of Education and National Taiwan Ocean University, Taiwan

Professional Experience

Total years of experience in Fin fish, Shell fish and Live feed culture is 6+ years

Research Fellow– (Mariculture Division) - CMFRI

Experience In Live feed culture (Micro algae, Copepods, Rotifers and Artemia)

- ❖ **Microalgae** - *Isochrysis galbana*, *Nanochloropsis salina*, *Nanochloropsis oculata*, *Pavlova lutheri*, *Dunaliella salina*, *Chaetoceros calcitrans*, *Navicula sp*, *Nitzschia sp* and *Chlorella marina*.
- ❖ Micro algae - stock culture, Intermediate culture and Mass culture .
- ❖ Management of the micro algae production with ensuring good quality and quantity .
- ❖ **Copepod culture** - *Pseudodiaptomus serricaudatus*, *Acartia southwelli*, *Parvocalanus crassirostris* and *Dioithona oculata* .
- ❖ Copepod – Stock culture and Mass culture .
- ❖ Management of the production of copepod nauplii and adult with ensuring good quality and quantity .
- ❖ **Rotifers** - *Brachionus plicatilis* and *Brachionus rotundiformis* .
- ❖ Rotifer – Stock culture and mass culture for feeding the fish larvae
- ❖ **Artemia** – *Artemia salina* culture for feeding the fish larvae

Shellfish breeding and culture

- ❖ Broodstock conditioning ,spawning ,larval rearing and seed production of green mussel *Perna viridis* and brown mussel *Perna indica* .
- ❖ Broodstock conditioning ,spawning ,larval rearing and seed production of Indian backwater oyster *Crassostrea madrasensis* .
- ❖ Golden pearl oyster *Pinctada fucata* broodstock development,spawning,larval rearing,seed production and image pearl implantation .
- ❖ Collection of the eggs and larvae of green mussel,brown mussel,edible oyster ,pearl oyster and its quality analysis .
- ❖ Monitoring of water quality parameters .
- ❖ Raft and rope culture of *Perna viridis*, *Perna indica* and raft culture of *Pinctada fucata* .
- ❖ Regular check up of the health status of the brooders .
- ❖ Managing daily recording system and production data .
- ❖ Breeding and larval rearing of four species of marine ornamental shrimp (*Lysmata debelius*, *Lysmata amboenensis*,*Stenopus hispidus* and *Rhynchocinetus durbanensis*).
- ❖ Assisted in the breeding and larval rearing of *Sepia pharaonis* ,*Sepiella inermis* and *Sepioteuthis lessoniana* .

Shell Fish Species Successfully Produced

Sl.No	Scientific Name	Common Name
1.	<i>Perna indica</i>	Brown Mussel
2.	<i>Perna viridis</i>	Green Mussel
3.	<i>Crassostrea madrasensis</i>	Indian Back Water Oyster
4.	<i>Pinctada fucata</i>	Golden Pearl Oyster

Finfish breeding and culture

- ❖ Management and Supervising of all the daily routine activities for marine fin fish hatchery
- ❖ It includes Broodstock Management, Larval rearing, Weaning, Nursery rearing, Fish health management , Water quality management and system operations .
- ❖ breeding and larval rearing of marine ornamental fishes - *Amphiprion percula*, *Amphiprion ocellaris*, *Amphiprion clarkii*,*Amphiprion sebae*,*Amphiprion frenatus*,*Amphiprion*

ephippium, Premnas bioculeatus, Neopomacentrus cyanomos and *Neopomacentrus nemurus* .

- ❖ Broodstock development, breeding, larval rearing and seed production of *Pseudanthias marcia*.
- ❖ Broodstock development, breeding, larval rearing and seed production of *Lethrinus lentjan* and *Epinephelus coioides* .
- ❖ Broodstock development, breeding, larval rearing and seed production of *Trachinotus blochii* and *Trachinotus mookalee* .
- ❖ Broodstock development of mangrove red snapper - *Lutjanus argentimaculatus* in RAS .
- ❖ Management of the live feeds with ensuring good quality and quantity for feeding the fish larvae .
- ❖ Control the live feed production as per the need to minimize the usage of raw material preparation of monthly production plan and monthly reports .
- ❖ Monitoring of all water quality parameters and ensures always optimum .
- ❖ Activation , Monitoring and Maintenance of RAS .
- ❖ Assist different research project on fish breeding and live feed culture .
- ❖ Hands on aquaculture training for university students and local farmers .
- ❖ Food and feeding management of broodstock, larvae and nursery .
- ❖ Routine checkup of the health status of the fishes and monitoring of water quality parameters.
- ❖ Collection of eggs and its quality analysis .
- ❖ Preparation of Bio security plan and its effective implementation .
- ❖ Supervising of weaning and nursery husbandary activities .
- ❖ Live juveniles transportation .
- ❖ Cage culture of Pompano and groupers .

Fish species successfully produced

SL.NO	Scientific Name	Common Name
1.	<i>Lethrinus lentjan</i>	Pink ear emperor
2.	<i>Trachinotus blochii</i>	Subnose pompano
3.	<i>Epinephelus coioides</i>	Orange spotted grouper
4.	<i>Trachinotus mookalee</i>	Indian pompano

Taxonomy and Biological analysis of Finfish and Shellfish

- ❖ Fishery and biology of *Perna indica*, *Perna viridis* and *Paphia malabarica* .
- ❖ Fishery and biology (gut content analysis ,reproductive biology and feeding intensity) of commercially important fishes from vizhinjam coast .
- ❖ On board sampling in the fishing trawlers, motorized crafts from vizhinjam coast .
- ❖ Marine biodiversity study and taxonomy of fin fishes and shell fishes .

Visiting Research Fellow - Taiwan Experience Education Program (TEEP) - Aquaculture and Molecular biology

- ❖ Done a six month research “**On the vulnerability of parasitized animals to viral infection**”
- ❖ Polymerase chain reaction and Agarose gel electrophoresis .
- ❖ Genomic DNA extraction and total RNA extraction .
- ❖ Nanodrop spectrophotometry .
- ❖ Reverse transcription to make cDNA .
- ❖ Visited most of the well reputed Groupers and Abalone hatcheries in Taiwan as a part of the program .

Young professional II - Marine ornamental fish breeding and culture

- ❖ Stock culture of microalgae - *Nanochloropsis oculata*, *Chlorella marina*, *Isochrysis galbana*, *Chaetoceros calcitrans* , *Navicula sp* and *Nitzschia sp* .
- ❖ Stock and mass culture of rotifer *Brachionus plicatilis* and *Brachionus rotundiformis* .
- ❖ Broodstock development, breeding and seed production of clown fishes and damsel fishes .

Research Associate - Ministry of Agriculture and Fisheries – Aquaculture Research Centre - Mirbat abalone hatchery, Sultanate of Oman

- ❖ Broodstock conditioning, spawning, larval rearing, settlement and seed production of omani abalone *Haliotis mariae* .
- ❖ Prepare Biosecurity plans and continuous monitoring of its implementation .
- ❖ Managing daily recording system and production data .
- ❖ Collection of eggs and its quality analysis .

- ❖ Benthic diatom culture (*Navicula ramosissima*, *Amphora angusta* and *Cocconies scutellum*) for the settlement and feeding of omani abalone post larvae .
- ❖ Management of live feed production (benthic diatoms) with ensuring good quality and quantity.
- ❖ Regular check up of the health status of the brooders .
- ❖ Regular monitoring of settled post larvae of omani abalone and the growth of benthic diatoms over the plates .
- ❖ Monitoring of all water quality parameters .
- ❖ Super Intensive culture of *Oreochromis mossambicus* and *Oreochromis niloticus* .

Research Associate – Blue Aqua Breeding Centre – Blue Aqua International, Singapore

- ❖ Supervision in the larval rearing of *Litopenaeus vannamei* (From Nauplius to Post larvae)
- ❖ Diatom culture (*Chaetoceros calcitrans*) for the shrimp zoe – Stock culture, intermediate culture and mass culture .
- ❖ Management of live feed production with ensuring good quality and quantity .
- ❖ Artemia culture for the shrimp post larvae .
- ❖ Shrimp super intensive farming and Biofloc experience .
- ❖ Shrimp hatchery to grow out experience .
- ❖ Management of day to day work in the shrimp larval rearing section .
- ❖ Preparation of biosecurity procedures and its strict implementation and updation .
- ❖ Super intensive culture of Red tilapia – *Oreochromis sp*

Animal Health Biologist – National Aquaculture Group (NAQUA), Kingdom of Saudi Arabia

- ❖ Field diagnosis of shrimp samples – Routine field visit, Sampling ,Microscopic and Macroscopic observation .
- ❖ Strict Monitoring of Biosecurity standards and its Strict implementation .
- ❖ Health monitoring of shrimp larvae (Nauplius – Post larvae) under the microscope .
- ❖ Worked as a Supervisor role in successful shrimp hatchery operation .
- ❖ Worked in Micro algae culture section (*Chaetoceros calcitrans* and *Thalassiosira weissflogii*).

Publication

- ❖ Anil M.K., Mary Rinju R., Raheem P K., Raju B., Hillary P. and Leslie.V.A Use of micron meshed cages for the nursery rearing of hatchery produced Green mussel *Perna viridis* spat -5th international symposium on cage aquaculture in Asia, Asian Fisheries society - Won Best Paper award Cage Aquaculture in Asia.
- ❖ P.Neethu Raj, M.K Anil, M.V Rohini Krishna and Raheem P K Morphological, Anatomical and Reproductive Features of *Loliolus(Loliolus) hardwickei*(Grey, 1849) caught from the Vizhinjam coast, Kerala, India- Indian journal of fisheries., 65(1) : 32-39, 2018.
- ❖ Anil M.K , Gomathi P, Raheem P.K., Raju B, Philipose K.K, Gopalakrishnan A. Captive Broodstock development, Breeding and Seed production of Anthid Fish (Family : Serranidae) *Marcias Anthias, Pseudanthias marcia* in Recirculation Aquaculture system (RAS) - Aquaculture 492 (2018) 265-272.
- ❖ P.K.Raheem, B.Raju, P.Gop.Ambarish, M.K.Anil, P.Gomathi, S.Surya and K.N.Saleela. First Record of Red Frog Crab *Ranina ranina* (Linnaeus, 1758) (Brachyura : Raninidae) from South West Coast of India. Bio bulletin, 4(2): 13-16(2018).
- ❖ Rohini Krishna M.V, Anil M.K, Gomathi P, Raheem P.K., Neethu Raj P. Studies on the Broodstock production and larval rearing of coral demoiselle *Neopomacentrus nemurus* (Bleeker 1857) - Aquaculture Research. 2018;00:1-11. <http://doi.org/10.1111/are.13898> .
- ❖ Anil M.K , Sugi V.V, Gomathi P, Raheem P.K., Ambarish P.Gop, Santhosh B, Raju B , Gopakumar G, Philipose K.K and Gopalakrishnan A. 2017 Captive Maturation, breeding and seed production of Pink ear emperor, *Lethrinus lentjan* (Lacepede, 1802) (Family : Lethrinidae) in Recirculation Aquaculture System (RAS) - Aquaculture 503(2019), 207-216.
- ❖ P.K.Raheem, M.K.Anil, P.Gop.Ambarish, B.Raju, S.Surya, P.Gomathi and K.N.Saleela. First Report of Marble Shrimp *Saron marmoratus* (Olivier, 1811) (Crustacea : Decapoda : Hippolytidae) from the South West Coast of India. Bio bulletin, 5(1) : 01-04(2019).
- ❖ Gomathi P, Anil M K, Raheem P K., P.Neethu Raj, M.V Rohini Krishna, Ambarish P.Gop, Surya S. Egg and Larval Development of Serranid Fish *Marcias Anthias, Pseudanthias marcia* (Subfamily: Anthinae) Spawned and Reared under Captive Condition - Thalassas : An International Journal of Marine Sciences. 23 Jan 2020. <http://doi.org/10.1007/s41208-020-001930> .

- ❖ Gomathi, P., Siju, R., Anil, M.K., Ambarish,G.P., Surya,S., Raju, B., Raheem, P.K., Ignatius, B., & Gopalakrishnan, A. (2021). Embryonic and larval development of Pink ear emperor, *Lethrinus lentjan* (Lacepede,1802) under captive conditions. Aquaculture Research, 00, 1-13. <https://doi.org/10.1111/are.15461>.
- ❖ Raheem, P.K., Rohini Krishna, M.V., Surya,S., Gomathi, P., Ambarish,G.P., Santhosh, B., Raju, B., Anil, M.K(2021). Breeding, larval rearing and growth of black *Amphiprion ocellaris* (Cuvier, 1830) under captivity. Indian Journal of Fisheries 68(2) :60 DOI: 10.21077/ijf.2021.68.2.102354-08 .

Training on **Recent advances in Mariculture** organized by ICAR-Vizhinjam Research Centre of CMFRI and Kerala state Fisheries department from 9-13th January 2017 at Vizhinjam Research Center of CMFRI.chapters prepared for training course manual on Recent advances in Mariculture are as follows

- ❖ Gomathi.P, M.K.Anil, P.K Raheem,B. Raju,O.Shalini, P.M Krishnapriya. 2017.Seed production of back water oyster - *Crassostrea madrasensis*(Preston).
- ❖ Anil.M.K, P. Gomathi, Raheem P K, Mary Rinju R, Raju B, Leslie V A and Hillary P 2017. Hatchery technology for mussel seed production .
- ❖ Anil M K, P. Gomathi, P K Raheem, Mary Rinju R, B. Raju, P. Hillary, 2017. Pearl oysters and image pearl culture.

Interested Areas

- Shell fish and Fin fish Aquaculture .
- Finfish and Shellfish breeding .
- Fish and shellfish biology .
- Fishery resource management .
- Taxonomy .
- Fish processing .
- Shrimp Hatchery / Farm management .

Personal Profile

Full Name : Raheem Padikkala Kandiyil
Gender : Male
Date of Birth : 20/05/1993
Nationality : Indian
Religion and Caste : Islam, Muslim
Marital status : Married
Language known : English, Malayalam, Tamil, Hindi and Arabic .

References

1. Dr. M.K Anil -

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3. Dr. Chi-Ying Lee


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Declaration

I hereby declare that the information provided above is genuine.



Raheem P K

