

Externally Funded Projects~ 2021-22

OUTREACH

1. Outreach activity on fish feed and Nutrient profiling of Brackishwater fish and shrimp

NICRA

2. National Initiatives on Climate Resilient Agriculture-Impact of climate change on aquaculture and mitigation options for minimizing greenhouse gases from aquaculture sector

DBT

3. Development of grow-out technology for mass culture of sand and muddy polychaete worms and assessment of their seasonal nutritional profiling for use in shell and finfish hatcheries
4. Solid state fermentation technology for development of cost effective customized plant protein products as fishmeal alternate for shrimp feed
5. Unravelling signatures of growth and salinity adaptation in *Etroplus suratensis* through omics approaches
6. Promotion of Integrated Multi-trophic Aquaculture (IMTA) technology for income generation and optimum use of bio-resources
7. Precision brackishwater aquaculture technology using Machine Intelligence

Network Projects

8. All India Network on Fish Health
9. Network Project on Anti-microbial resistance
10. Development of brackishwater aquaculture through optimisation of captive breeding protocols of potential and emerging ornamental fish species, technology transfer and livelihood generation.
11. Investigations on dietary alterations in shrimp for abiotic stresses using nutrigenomics approach

Platform Project -CRP

12. Diagnostics & Vaccines- Development of diagnostics for differentiation and quantification of pathogenic *Vibrio harveyi* clade species
13. Diagnostics & Vaccines- Development of improved diagnostics, probiotics and vaccines for aquatic animal health management
14. Genomic resources for augmentation of economic traits in Indian white shrimp *Penaeus indicus* and whole genome sequencing of brackishwater aquaculture candidate species

NASF

15. Development and Validation of Smart Aquaculture Model (SAM): Application of ICT and Data analytics for sustainable shrimp aquaculture
16. Captive Breeding of Hilsa, *Tenualosa ilisha*: Phase II

Department of Fisheries, Tamil Nadu

17. Resource Mapping of Brackishwater Aquaculture in Tamil Nadu

Seafood Exporters Association of Kerala

18. Environmental and Social Impact assessment study for assessing the suitability of derelict paddy fields for shrimp Farming in Kerala

Mangrove cell, Maharashtra

19. Brackishwater integrated multi-trophic cage aquaculture of different species, Pearl spot breeding & Crab box culture in diverse rearing systems for alternate livelihood and Societal development of mangrove based fisher folks of Maharashtra

Indo-UK

20. Diversification of potential crop species in brackishwater aquaculture, adaptation for climate resilience
21. Monitoring impacts of physico-chemical characteristics on system generated syndromes of shrimp in a pond environment

Department of Fisheries, Government of Gujarat

22. Pilot Project on Cage culture of Asian Seabass, *Lates calcarifer* and Pearlsport *Etroplus suratensis* in Brackishwater Creeks as an Alternate Livelihood for Coastal Fisher Folks of Southern Gujarat