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Green Certification guidelines for marine ornamentals released

The document "Guidelines for Green Certification of marine Ornamental Species" was officially released on 31st July 2024 with the first copy handed over to Dr. P. Krishnan, Director, Bay of Bengal Program- Inter-Governmental Organisation (BOBP-IGO), Chennai, by Dr. A. Gopalakrishnan, Director, ICAR-CMFRI. The guidelines aim to develop a certified trade of marine ornamentals in India, with

Dr. Grinson George assumes charge of Director, ICAR-CMFRI

Dr. Grinson George has assumed charge as Director, ICAR-Central Marine Fisheries Research Institute (CMFRI). Prior to this, he was heading the Marine Biodiversity and Environment Management Division in ICAR-CMFRI and has also held the position of Senior Programme Specialist at the SAARC in Dhaka. With over two decades of experience in marine fisheries and oceanography, Dr. George has led many high impact research projects as principal investigator at national and international level with the funding support of various agencies such as the Ministry of Earth Sciences, Ministry of Environment, Forest and Climate Change, ISRO, Department of Biotechnology, Department of Science and Technology and ICAR-National Innovations in Climate Resilient Agriculture project (NICRA), and India-UK Water Quality Initiatives. He has served as a Member of the



Board of Studies at Cochin University of Science and Technology (CUSAT) and Kerala University of Fisheries and Ocean Studies (KUFOS) and has guided PhD scholars in multiple universities, including CUSAT, KUFOS, Andhra University and Mangalore University.

an integrated approach by the concerned State/Union territory departments along with the relevant national agencies to

initiate green certification in a step-by-step manner. In five sections, it covers Guidelines for Collection of marine ornamentals, Guidelines for Holding and conditioning centre, Guidelines for Captive breeding and seed production, Guidelines for Transportation and Guidelines for Marketing, apart from twenty-eight annexures with relevant supplementary information. The document has been prepared by a team of scientists under the leadership of Dr. G. Gopakumar, Principal Scientist (Retd.) and former Head of the Mariculture Division in ICAR-CMFRI ♦



Director Speaks

Greetings to all..

Established in 1947, ICAR-CMFRI has made significant contributions to marine fisheries management, mariculture, marine ecosystems and marine biotechnology domains, in India. Artificial Reefs deployment to benefit small-scale fishers, whole genome sequencing of selected species, benefitted small scale fishers. Whole genome sequencing, development of nutraceuticals, hatchery technologies for 38 species including food fish, shellfish and ornamental fish, cage farming technology development are some of the recent significant achievements of the Institute which has bagged over 140 awards during the last decade. As the 17th Director of ICAR-CMFRI, the goal is to steer research that aligns institutional mandates with a global perspective. Developing AI-based marine resource identification systems, advancing the island fisheries of India, managing transboundary fish stocks, upgrading fish stock status assessments, enhancing mariculture production through genetic improvement and CRISPR-Cas technology, exploring in vitro meat of marine fishes as a promising future for sustainable seafood and successfully addressing the challenges of climate change through our research programmes require attention. With the talent pool available and the dedicated support of the entire ICAR-CMFRI family, and embodying the true spirit of "One Earth, One Family, One Future" let us move forward together to reach new heights.

With best wishes

Dr. Grinson George
Director, ICAR-CMFRI

Black soldier fly larvae based bioconversion unit inaugurated



Hon'ble Minister of State for Fisheries, Animal Husbandry and Dairying and Minority Affairs, Government of India, Shri. George Kurian inaugurated the Black soldier fly larvae based bioconversion unit, in an event held on 26 September, 2024 as part of the *Swachhata Hi Seva* campaign led by ICAR-CMFRI. Designed and developed by the Marine Biotechnology Fish Nutrition and Health Division this unit can process vegetable and fishery-related biological wastes generate on the institute

campus, by adhering to the principles of zero waste and circular economy. The 'Cadalkin™ BSF ZW- A Zero-Waste bioconversion system' brochure released on the occasion, highlights the technology for possible adoption by similar interested groups. Dr. Kuldeep Lal, Director, ICAR-CIBA was also present on the occasion.

Reported by Sanal Ebeneezar, D. Linga Prabu, S. Chandrasekar, Adnan H. Gora, and Kajal Chakraborty ♦



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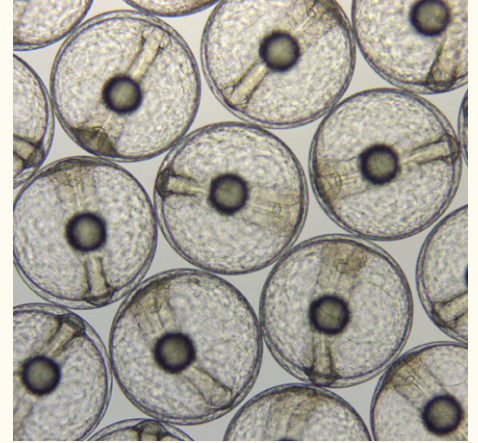
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Assisted by: Mr. Arun Surendran, Mr. C. V. Jayakumar, Mr. P. R. Abhilash

Breakthrough in induced breeding and captive seed production of Giant trevally



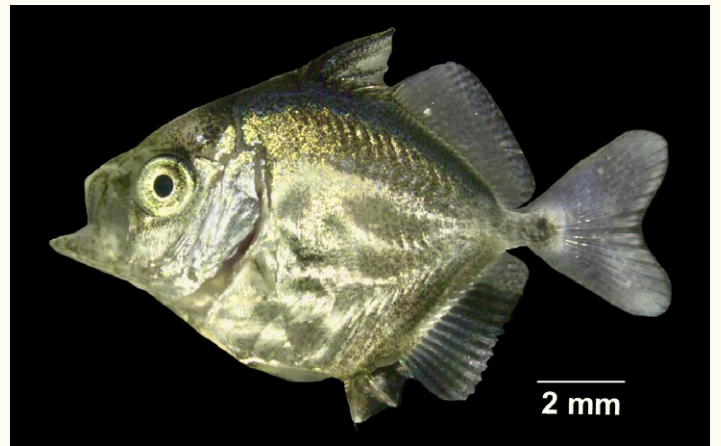
Brood fish of Giant trevally



Fertilized eggs



Metamorphosing larvae at 20 dph and measuring 12.4 mm in total length



Metamorphosing larvae at 25 dph and measuring 15.2 mm in total length

In a landmark achievement for mariculture research, ICAR- CMFRI has succeeded in induced breeding and seed production of the Giant trevally (*Caranx ignobilis*). A fast-growing, food fish that can be farmed in marine and estuarine cages, pens and coastal ponds, it grows faster than pompanos with wider tolerance to salinity ranges and water quality conditions. This achievement is significant as the species is identified as one with high potential for mariculture. A carangid, it is typically found in coastal reefs, lagoons and open seas and characterized by its silvery colouration with a series of small dark spots and faded vertical bars along its body, often growing

up to 1.7 meters in length and weighing over 80 kilograms, in the wild. A much sought-after marine food fish, its price ranges from ₹300 to 700 per kilogram. Initial cage farming trials with pellet feed indicated that this fish reaches marketable size up to 500g in 6 months and around 1-1.5 kg in a 12-month culture period. Captive breeding of Giant trevally faced significant hurdles for a long time due to its preference for open waters, specific breeding requirements and complex reproductive biology. Extensive research and trials that involved meticulous monitoring of its behaviour, hormone administration and precise environmental control, conducted at Vizhinjam Regional

Centre has led to this break-through of successful captive breeding of the species. Juveniles of size 20-35 g were collected from the barmouth area using Chinese dipnet and stocked in ICAR-CMFRI's Interim Broodstock Rearing Facility located at Prakkulam area of Ashtamudi Backwaters in Kollam district of Kerala. The fish were reared on a special broodstock diet and attained 2.2-3.5 kg size in two years. The maturity stages were determined by cannulation biopsy and the broodstock fish (mature male and female) were identified and transferred to broodstock cages. When the female fish had an ova diameter of 200-280 μm , a few fishes were transferred to the indoor

New Heights

hatchery facility of Vizhinjam Regional Centre. The fish were reared in three RAS systems of 10-tonne capacity stocked with a sex ratio of 1:1 (female: male), and LHRH analogue was used to induce the broodstock. Hormone administration was done in females with a gonad stage having an ova diameter 420–450 µm, and the fish spawned 48–52 hours after the second dose of hormone injection. The eggs hatched 14–16 hours post-fertilization and the larval mouth opening was recorded between 64–65 hours.

Successful initial feeding was achieved using a calanoid copepod *Parvocalanus crassirostris* as a live feed, and from five days post-hatch (dph) onwards, were shifted to a mixed diet with rotifer and from nine dph onwards, with Artemia. The larvae started to metamorphose at 18–20 dph and were weaned to pelleted feed during this stage.

ICAR-CMFRI is now focussing on optimizing the breeding protocols to scale up the production efficiency and refine the larval rearing protocols of this species. Giant trevally is a fast-growing, hardy species that can be easily farmed

using pellet diets throughout the culture period. The initial success of captive seed production is therefore expected to pave the way for large-scale seed production and farming of this marine food fish.

Reported by Ambarish P. Gop, M. Shakthivel, A. Anuraj, S. Surya, B. Santhosh, Krishna Sukumaran, Rathi Bhuvaneswari, Bobby Ignatius, V.V.R. Suresh, A. Gopalakrishnan, F. Muhammed Anzeer, K.S. Aneesh, Dispin Das, A.R. Akhil, M. Arshadudeen and J.S. Ajimi ♦

Aquafeed bolsters Silver pompano in cage farms

ICAR-Central Marine Fisheries Research Institute partnered with ABIS Exports India Pvt. Ltd (IB Group) to execute the demonstration of Silver pompano cage culture using the Cadalmin™ SilverGrow aquafeed, developed by ICAR-CMFRI.

Launched in December 2023, the trial spanned seven months, culminating in a successful harvest on July 10th, the National Fish Farmers Day. During the event, selected progressive farmers from Uttara Kannada district were honoured with certificates of appreciation for their excellence in marine and coastal cage farming. Presiding over the function, Dr. Pravin, P. Former, Assistant Director General (Marine Fisheries), ICAR, New Delhi emphasized the significance of celebrating National Fish Farmers Day. Dr. Prathibha Rohit, former Scientist-in-Charge of Karwar Regional

Station, highlighted the necessity of Industry-Institute collaboration for technological transformation. The use of indigenous solutions such as Cadalmin™ SilverGrow, shows promise for enhancing sustainability and efficiency in aquaculture operations. All the Scientists, technical staff, multi-tasking staffs and administration staff of ICAR-CMFRI, Regional Station, Karwar actively participated in the celebrations.

Reported by Sanal Ebenezeer, S. Chandrasekar, Adnan H. Gora, D. Linga Prabu and Kajal Chakraborty ♦



Release of Cadalmin™ SilverGrow and nutraceutical products

Hon'ble Minister of State for Fisheries, Animal Husbandry & Dairying and Panchayati Raj, Government of India,

Prof. S. P. Singh Baghel released Cadalmin™ SilverGrow- a novel grow-out feed for Silver pompano (*Trachinotus blochii*) in an event held at Dr. E. G. Silas Hall on 25th August, 2024 at ICAR-CMFRI, Kochi. Specially formulated, for Silver pompano to ensure higher growth with a better feed conversion ratio it is ideal for use in both sea cage and pond culture environments. With a 38% protein and 8% fat content, featuring a high- quality blend of marine proteins from fish, shrimp, and clams, along with soy flour, wheat flour, fish oil, vitamins, minerals, antioxidants, and antifungal agents. Cadalmin™

SilverGrow has been commercialized in partnership with ABIS Exports India Pvt. Ltd. Also, two nutraceutical products Cadalmin™ Cardioalginol extract, and Cadalmin™ Cardiocto extract which is a 100% natural blend of polysaccharides and highly polymerized phloroglucinol bioactive ingredients extracted from seaweed with ecofriendly 'green' technology to combat cardiac hypertrophy, developed by ICAR-CMFRI were released.

Reported by Sanal Ebeneezar, S. Chandrasekar, Adnan H. Gora, D. Linga Prabu and Kajal Chakraborty, Marine Biotechnology, Fish Nutrition and Health Division ♦



Emerging fishery for an endemic marine clam



A small-scale monsoon fishery targeting the marine clam *Sunetta solanderii*, locally known as "Vella erunthu," was observed at Kadalundi, Kozhikode, during June-July 2024. As the first documented report of *S. solanderii*, extensive beds of this clam occur in the subtidal region of Kadalundi Bridge at 11°07' 16.8" N; 75°49' 39.0" E coordinates. A few fishermen are engaged in sustenance fishing during the low tide, on the clam beds composed of sand, silt and shell fragments. Handpicking and scoop nets are used to catch clams in the size range of 20 to 38 mm.

Reported by K.K. Sajikumar, K.M. Jestin Joy and Geetha Sasikumar ♦

Sand lance emerging as a non-conventional fishery resource in Gulf of Mannar

In August and September of 2024, a single-day fish trawl net operating at 40–50 m depth off Pamban in the Gulf of Mannar landed a sand lance, *Bleekeria*



murtii. Sporadic landings over the past few years has reached a stage where substantial quantities of 150-350 kg per boat are landed. The size ranges



from 115 to 135 mm mean length and mean weight are 124.8 ± 8.2 and 7.6 ± 1.5 g, respectively and fish traders from Kerala procured the fish at a rate of ₹30-40 per

kg for consumption.

Reported by R. Rajkumar, M. Rajkumar and Midhun Muthayan, Mandapam Regional Centre ◆

Dead Sea cow at Palk Bay



On 29th August 2024, an adult dead sea cow (*Dugong dugon*) was stranded 5 km away from the bordering Dugong Conservation Reserve at Kottaipattinam, Pudukottai district, Tamil Nadu in Palk Bay. Measuring a total length of 241 cm, it weighed more than 350 kg and had cuts on the left flipper, chest and head region. Striking of dugongs by propellerors of boats operating in this region is possible and greater the fishermen's awareness of this iconic species for its conservation is desirable.

Reported by R. Suresh, M. Rajkumar, S. Thirumalaiselvan and S. Joseph Jegan, Mandapam Regional Centre ◆

A gender-inclusive revolution in seaweed farming from Kutch, Gujarat

Smt. Sakina Bai A. Vagher, a 46-year-old woman hailing from the traditional fishing community of the Vagher caste, resides in Juna Bandar, Mundra, in the Kutch District of Gujarat. Her primary income sources have been *pagadiya* fishing based dry fish preparation, sales to households or local markets, etc. However, declining fish catches and reduced earnings led her to seek alternative livelihood options to support her family. Veraval Regional Station of ICAR- CMFRI provided her with hands-on training on seaweed farming, along with essential resources such as HDPE rafts, seaweed seeds, and technical guidance. As part of a national initiative to develop seaweed farming master trainers, Smt. Sakina Bai was chosen as one of the woman master trainer for the Kutch region. This initiative, supported by the Department of Fisheries and closely monitored by the Honourable Prime Minister's Office, is part of a high-priority strategic mission project to assess the



feasibility of seaweed farming along the Kutch coast. With her husband's support, Smt. Vagher initially began seaweed farming with two customized HDPE grids, comprising eight rafts, and cultivated *Kappaphycus alvarezii* seaweed. The first crop yielded substantial income, enabling her to expand her operations with four additional HDPE grids. Today, she and her family manage over 40 seaweed farming rafts with women focusing on tasks like tying seaweed seedlings to

monoline and net tubes, while the men handle the deployment of seaweed rafts and other offshore operations. The success of Sakina Bai Vagher demonstrates the transformative impact of gender-inclusive initiatives in seaweed farming contributing to the economic well-being of their families and thereby entire communities.

Reported by D. Divu, Suresh Kumar Mojjada, P.S. Swathi Lekshmi, P. Abdul Azeez, Jayesh Devaliya, Sagar Jadav, B. Prachi, Mayur S. Tade, T. S. Ramshad, S. Aarsha and J. Dhanush ♦

Awareness Programme on Marine Species Conservation

The awareness programme on the conservation of marine protected species held at the Visakhapatnam Fishing Harbour on 10th September, 2024 marked a significant step in ongoing efforts to protect and preserve our rich marine biodiversity. Distinguished speakers on the occasion included the Chief Guest, Mr. Srikanthanatha Reddy, Chief Conservator of Forests (CCF), Visakhapatnam, G.

Mangama, DCF, Indira Gandhi Zoological Park, Visakhapatnam and Mr. Janaki Rao, DFO (retired), Regional Biodiversity Coordinator, APSBB. The event saw active involvement from fishermen associations, trade leaders, government officials, and NGOs which addressed critical issues such as coastal pollution, sustainable fishing practices, and the need for community involvement in

conservation efforts. Twenty five fishermen from Srikakulam, Vizianagaram, and Visakhapatnam districts were felicitated for their exemplary efforts in rescuing endangered marine species. This programme funded by the Andhra Pradesh State Biodiversity Board was executed by a team from the Visakhapatnam Regional Centre led by Dr. Joe K. Kizhakudan and Dr. Pralaya Ranjan Behera. Around 100 fishermen attended the event. Dr Grinson George, Director, ICAR-CMFRI appreciated all participants and stakeholders who contributed to the success of this event ♦

Awareness campaigns on International Whale Shark Day

All Centres and Stations of ICAR-CMFRI, celebrated International Whale Shark Day, which is observed on 30 August every year, through awareness campaigns for various stakeholders, from school students to enforcement wings. A leaflet prepared by the Finfish Fisheries Division (FFD) in all the vernacular languages on the 'International Whale Shark Day' was distributed among the participants of these programmes. Awareness talks were given on the biology and life history of

the whale shark, its role in the ecosystem, the threats faced by it, its status in Indian waters and conservation efforts being taken, the need to release entangled or accidentally caught individuals, and incentive schemes implemented by different agencies to encourage fishers to release live whale sharks back to the sea. Dr. Shoba Joe Kizhakudan, Head, FFD also delivered the keynote address in the International Whale Shark Day program

jointly organized by Ministry of Forest and Wildlife, Govt. of Kerala, Wildlife Trust of India (WTI) and VST Industries Limited, at Trivandrum, Kerala on 30th August 2024. Shri A.K. Saseendran, Hon'ble Minister for Forests and Wildlife, Govt of Kerala inaugurated the programme attended by the fishing communities actively engaged in shark conservation.

Reported by Finfish Fisheries Division ◆



Fishermen-Farmers meet

A Fishermen-Farmers meet held at Madras Regional Station of ICAR- CMFRI, Chennai on 11th August 2024 was attended by fishermen and fish farmers from different fishing villages of Nochikuppam, Ennore, Kottivakkam, Senchiamman Nagar, Pazhaverkkadu and Kottaiakadu in Chennai, beneficiaries of SCSP and TSP cage culture programmes and staff of Madras Regional Station. In a similar meet organized at the Mandapam Regional Centre sea cage and seaweed farmers from Thangachimadam, Pillaimadam and Vedalai villages in Ramanathapuram district participated and interacted with 10 Scientists of the Mandapam Regional Centre of ICAR-CMFRI ♦



The ICAR-CMFRI Headquarters and Mandapam Regional Centre felicitated Padmasree Ali Manikfan for his outstanding contribution to Marine Science and Innovation.

Swachh Bharat Walkathon

As part of the Swachh Bharat Campaign 2024, ICAR-Central Marine Fisheries Research Institute (CMFRI) organized a walkathon in collaboration with the NSS unit of the College of Fisheries, Yekkur, and Yashwasini Fish Meal and Oil Company. Held on 24th September 2024, the event aimed to raise public awareness about the importance of a clean and green India had 125 participants, including staff, students, and members of the public who actively took part in the walkathon, demonstrating a strong community spirit ♦



Women awareness program for seaweed farming along the Kutch Coast



A strategic initiative for sustainable livelihood development, awareness and training programme were conducted by Veraval Regional Station of ICAR-CMFRI during July 2024 to promote alternative livelihoods and enhance advanced knowledge on seaweed farming in villages along the Indo-Pak marine border, as part of a high-priority strategic mission project closely monitored by the Hon'ble Prime Minister's Office. The programme aimed to equip coastal fishers, particularly women with the skills and knowledge necessary to embark on seaweed farming as a sustainable alternative livelihood option. Integrating advanced customized technology from ICAR-CMFRI for seaweed farming offers a modern approach to rural development, essential for fostering alternative livelihoods and empowering women in coastal communities.

Reported by D. Divu, Suresh Kumar Mojada, P.S. Swathi Lekshmi, P. Abdul Azeez, Jayesh Devaliya, Sagar Jadav, B. Prachi, T. S. Ramshad, S. Aarsha, J. Dhanush and Mayur S. Tade ♦

Stakeholders' meeting

The stakeholders' meeting under the in-house project 'Fisheries Management Plans for Tamil Nadu and Puducherry' was organized by the Madras Regional Station of ICAR-CMFRI on 9th July, 2024. Officials of the State Fisheries Department and Central government fisheries related organisations such as FSI, CIFNET and fishermen from different fishing villages of Nochikuppam, Ennore, Kottivakkam, Senchiamman Nagar, Pazhaverkkadu and Kottaikadu Chennai, beneficiaries of SCSP and TSP Cage culture programmes and staff of Madras Regional Station attended.

Exhibitions

Madras Regional Station of ICAR-CMFRI organized an Exhibition Stall on the sidelines of the Bay of Bengal Programme (BoBP) organised workshop "Regional Dialogue on conservation of marine Mammals and Turtles" at Trident Hotel, Chennai on 28th August 2024.

The Mandapam Regional Centre also exhibited the mariculture technologies in the Fisheries Summer Meet-2024, organized by Department of Fisheries, Ministry of Fisheries, Animal Husbandry & Dairying at IDA Scudder Trade Centre, Madurai on 12th July, 2024 ♦



National Fish Farmers' Day



On the occasion of National Fish Farmer's Day held every year on 10th July, 2024, fish farmers from Shri Bhimrao Ambedkar Matsyodyog Sahkari Manadali and Bharat Adim Juthh Matsyodhyog Sahkari Mandali, belonging to SC and ST community respectively, were felicitated by the Veraval Regional Station of ICAR-CMFRI. Dr. Swathi Lekshmi P.S., Scientist-In-Charge, Veraval Regional Station felicitated the community leaders for mobilizing their community members into successful marine fish farming. The members of these societies appreciated the role of ICAR-CMFRI in providing technical and scientific assistance helping them to achieve success in their farming ventures ♦

Entrepreneurship development in seaweed farming

As a part of entrepreneurship development, a training programme on "Seaweed & Sea Cage Farming for fishers/entrepreneurs of Adirampattinam, Thanjavur district" was organized at the Mandapam Regional Centre on 27th and 28th August, 2024. Hands-on experience on sea cage and pond farming, seed production of cobia & Silver pompano, bamboo raft, monoline and tube-net methods of seaweed farming as well as integrated multi-trophic aquaculture (IMTA) practices were imparted to six fisher entrepreneurs. Field visit to sea cage farms, Munaikadu and Mandapam were also arranged.



Reported by B. Johnson and K. Vinod, Mandapam Regional Centre ♦

Glolitter Campaign for School children

Drawing competition on 'Clean Ocean' was organized for primary and upper primary school children in Mangalore 28th August 2024 as part of Glolitter Campaign. The students of Dakshina Kannada Zilla Panchayath Higher Primary School, Bolar and Dakshina Kannada Zilla Panchayath Lower Primary School, Hoige Bazar participated ♦



Hindi Fortnight Celebrations

To encourage staff members of the Institute to do their work in Hindi, Hindi Fortnight was observed from 14th to 28th September, 2024 at Headquarters and all the Regional Centres / Stations. Various competitions were organised for staff of ICAR-CMFRI and prizes distributed during the Valedictory function held on 18th October, 2024 in hybrid mode. Prof. K. Vanaja, Head (Retd.) Department of Hindi, Cochin University of Science & Technology, was the Chief Guest of the function. Dr. Grinson George, Director, ICAR-CMFRI delivered the presidential address. Shri Hareesh Nair, Chief Administrative Officer (S.G.) and Officer-in-Charge (OL), Shri Prashant Kumar, Comptroller, ICAR-CMFRI were also present on the



occasion. The Co-ordination section at HQ received the Rajbhasha Rolling

Trophy for securing highest points in Hindi competitions ♦



Sea ranching of the Green tiger shrimp

The Mandapam Regional Centre of ICAR-Central Marine Fisheries Research Institute (CMFRI) is regularly carrying out sea ranching of hatchery produced post larvae of the Green tiger shrimp, *Penaeus*

semisulcatus in the Gulf of Mannar and Palk Bay to replenish the natural stock and to enhance the shrimp production. A total of 3.1 million green tiger shrimp seeds of PL 25- 40 were sea ranched in the Palk Bay during July – September, 2024. A total of 101.74 million green tiger shrimp seeds were sea ranched in Palk Bay and Gulf of Mannar since the initiation of the Project in February, 2022.

Reported by G. Tamilmani, B. Johnson, M. Sakthivel, P. Rameshkumar, K. K. Anikuttan and R. Bavithra, Mandapam Regional Centre ♦

Training programme for Fishery Survey Staff

The Fishery Resources Assessment, Economics & Extension Division (FRAEED) and the Finfish and Shellfish Fisheries Division (FFD & SFD), of ICAR-CMFRI conducted a training programme on "Survey Methodology for Field Data Collection, FCSA App, and Species Identification" from 18th to 22nd July, 2024. This initiative was designed to equip newly recruited technical officers of FRAEED

and select technical officers of ICAR-CMFRI with a thorough understanding of the marine fish landings data collection and estimation system employed by ICAR-CMFRI for deriving national marine fish landings estimates. Fifty participants attended the programme posted at various centres and stations in all the maritime states/UTs of the country ♦



International Coastal Cleanup Day

International Coastal Cleanup Day (ICCD) observed annually on the third Saturday of September every year since 1986, is the world's largest volunteer effort dedicated to the health of our oceans.

ICAR-CMFRI observed the International Coastal Cleanup Day on 20th September 2024 with an off-Kochi cruise onboard FV *Silver Pompano* aimed at collecting floating and column debris in the open sea

transect. Beach cleaning drive was also part of the activity and Kuzhippilly Beach, a famous tourist destination in Ernakulam district was cleaned by volunteers from the Marine Biodiversity and Environment Management Division (MBEMD) and other staff of ICAR-CMFRI ♦



World Environment Day celebrated with the 'Plant4Mother' campaign

ICAR-CMFRI joined the 'Plant4Mother' campaign launched by the Hon'ble Prime Minister Shri Narendra Modi on the occasion of the World Environment

Day. Tree planting drive was held at all the Regional Centres and Stations of the ICAR-CMFRI located across the country. The drive at Headquarters was

coordinated by the Marine Biodiversity and Environment Management Division, and inaugurated by Dr. Grinson George, Director, ICAR-CMFRI ♦



Visitors

Dr. A. Gopalakrishnan, Director, ICAR-CMFRI visited the Mandapam Regional Centre on 27th July, 2024 before his superannuation and interacted with the staff of the centre. ♦



Recognitions



The ICAR-Central Marine Fisheries Research Institute (CMFRI) technology on 'Integrated Multi-Trophic Aquaculture (IMTA) of seaweed and fish farming in cages' was recognized by ICAR during its 96th Foundation & Technology Day on 16th July, 2024. Dr. Johnson, B., Senior Scientist, Lead Developer of the technology received the certificate from Hon'ble Union Minister of Agriculture & Farmers Welfare, Shri Shivraj Singh Chouhan, in the presence of Hon'ble Union Minister of Fisheries, Animal Husbandry & Dairying, Shri Rajiv Ranjan Singh, Minister of State for Agriculture & Farmers Welfare, Shri. Ramnath Thakur and Shri Bhagirath Choudhary, Minister of State for Fisheries, Animal Husbandry & Dairying, Shri George Kurian and Shri S.P. Singh Baghel. The technology was developed under the project 'National Innovations on Climate Resilient Agriculture' (NICRA) and was selected as one of the five best technologies of Fisheries Science Division of ICAR ♦



Dr. Johnson, B., Senior Scientist, was nominated as member for the Production and processing cluster in fisheries and aquaculture sector by the Department of Fisheries, Ministry of Fisheries, Animal Husbandry & Dairying, Govt. of India. He was also selected as member in SEG-UBA (Subject Expert Group- Unnat Bharat Abhiyan) Team, a flagship programme of the Ministry of Education, Govt. of India ♦

Personnel

Appointment

Name	Designation	Place of Duty	Date of Joining
Shri Abhishek Das	Subject Matter Specialist (Soil Science) (T-6)	Krishi Vigyan Kendra, Lakshadweep	02.07.2024 (AN)
Mr. R. Vimal Ganesh	Assistant	ICAR-CMFRI, Kochi	30.08.2024 (FN)
Ms. P.X. Tintu	Assistant	ICAR-CMFRI, Kochi	30.08.2024 (FN)
Smt. P. Suriya Varshini	Assistant	ICAR-CMFRI, Kochi	18.09.2024 (FN)
Ms. Vinny George	Assistant	ICAR-CMFRI, Kochi	23.09.2024 (FN)
Shri C.A. Raju	Subject Matter Specialist (Home Science) (T-6)	ICAR-CMFRI, Kochi	26.09.2024 (FN)
Shri Boomesh Meena	Assistant	ICAR-CMFRI, Kochi	30.09.2024 (FN)
Shri Kinshuk Singhvi	Assistant	ICAR-CMFRI, Kochi	30.09.2024 (FN)

Compassionate Appointment

Name	Designation	Place of Duty	Date of Joining
Shri A. Dharun Kumar	Multi-Tasking Staff	Mandapam Regional Centre	13.08.2024

Inter-Institutional Transfer

Name & Designation	From	To	w.e.f.
R. Jeyabaskaran, Senior Scientist	Fishery Survey of India (FSI), Mumbai (on deputation)	Madras Regional Station, ICAR-CMFRI	15.07.2024
Shri Vaibhav Milan Tawde, Multi-Tasking Staff	Mumbai Regional Station, ICAR-CMFRI	ICAR-CIFE, Mumbai	31.07.2024
Shri K.S. Ajith, Assistant	ICAR-CMFRI, Kochi	ICAR-IISR, Calicut	08.08.2024

Promotions

Name & Designation	Promoted as	w.e.f.
Shri Roshin Pushpan, Assistant	Assistant Finance & Account Officer	22.08.2024 (FN)
Smt. P.N. Deepa, Assistant	Assistant Finance & Account Officer	22.08.2024 (FN)
Shri Arjun Murali, Assistant	Assistant Finance & Account Officer	22.08.2024 (FN)
Dr. Indira Divipala, Scientist	Senior Scientist	15.09.2024

Retirements on Superannuation



Dr. A. Gopalakrishnan

Director
31.07.2024



Shri D. Bhaskara Rao

Senior Technician
31.07.2024



Smt. M.P. Shyamala

Senior Technician
31.07.2024

Intra-Institutional Transfer

Name & Designation	From	To	w.e.f.
Dr. L. Remya, Scientist	Mandapam Regional Centre	ICAR-CMFRI, Kochi	01.07.2024
Dr. L. Loveson Edward, Senior Scientist	Visakhapatnam Regional Centre	Tuticorin Regional Station	08.07.2024
Dr. P.P. Suresh Babu, Principal Scientist	Karwar Regional Station	ICAR-CMFRI, Kochi	22.07.2024
Smt. D. Madhavilatha Assistant	ICAR-CMFRI, Kochi	Visakhapatnam Regional Centre	31.07.2024
Shri M. Ganesan Senior Technician	ICAR-CMFRI, Kochi	Mandapam Regional Centre	31.07.2024
Shri P.G. Vishnu, Technician	Cuddalore Field Centre	Vizhinjam Regional Centre	31.07.2024
Shri U. Aneesh Technician	Mandapam Regional Centre	Calicut Regional Station	31.07.2024
Shri P.B. Jeevaraj Multi-Tasking Staff	Calicut Regional Station	ICAR-CMFRI, Kochi	31.07.2024
Shri R. Pydi Raju Multi-Tasking Staff	Veraval Regional Station	Puri Field Centre	31.07.2024
Shri M.M. Abdul Hakeem Multi-Tasking Staff	Krishi Vigyan Kendra, Lakshadweep	Calicut Regional Station	31.07.2024
Shri J. Ramachandran Multi-Tasking Staff	Mandapam Regional Centre	Cuddalore Field Centre	31.07.2024
Dr. P.S. Asha, Principal Scientist	Tuticorin Regional Station	Vizhinjam Regional Centre	16.08.2024
Shri M. Vijayakarthykeyan, Senior Technical Assistant	Mandapam Regional Centre	ICAR-CMFRI, Kochi	30.08.2024



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