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About CMFRI

The Central Marine Fisheries Research Institute, Cochin, is a premier research Institute under the Indian Council of Agricultural Research, devoted to research and training in marine fisheries and mariculture.

CMFRI has three Regional Centres viz., Mandapam Camp, Visakhapatnam and Veraval and seven Research Centers distributed along the Indian coast line, catering to the marine fishery policy needs of all maritime states of the country.

Our Mandate is to...

- Undertake basic, strategic and applied research in marine fisheries and mariculture
- Monitor and assess the fishery resources of the Exclusive Economic Zone (EEZ) and to understand the stock and its dynamics in relation to environment and human interventions
- Develop and commercialize hatchery and production system technologies for finfish, shellfish and other commercial marine organisms in coastal and open seas
- Build up database on marine biodiversity, carry out research on fragile marine ecosystems for their conservation and restoration
- Undertake research on utilization of potentially beneficial marine organisms
- Act as a repository of information on marine fishery resources with a systematic and analytical database for policy interventions and to carry out research on social and economic costs and benefits of marine fisheries
- Conduct front line demonstrations and training to develop human resource for R&D in capture fisheries, mariculture
- Create awareness and provide training and consultancy services

Front cover photo: India’s first offshore cage farm at Visakhapatnam

Back cover photo: Redtail butterfly fish in the coral reef at Grande Island off Goa
Dr. G. Syda Rao has taken over as Director of CMFRI

Dr. G. Syda Rao has taken over as Director, Central Marine Fisheries Research Institute, Cochin. A renowned Scientist with more than three decades of meritorious research experience in the field of marine fisheries, Dr. Rao has published several research papers in national and international journals. Dr. Syda Rao has pioneered the land-based marine pearl culture technology which was granted a provisional patent in 2001. He has been instrumental in the successful demonstration of open sea cage culture technology at Visakhapatnam, recently.

Dr. Rao belongs to the 1976 batch of Agricultural Research Service of ICAR. He joined CMFRI as Scientist S-1 in the year 1977 and since then served the Institute in different capacities. Dr. Rao was the Scientist-in-charge of the Visakhapatnam Regional Centre of CMFRI before he took over as Director of the Institute.

Recognition

Sardar Patel Outstanding ICAR Institution Award 2007 for CMFRI

The Central Marine Fisheries Research Institute has bagged the coveted ‘Sardar Patel Outstanding ICAR Institution Award 2007’. The award has been given to Dr. G. Syda Rao, Director, CMFRI, Dr. S. Ayyappan, DDG (Fy) and Dr. Mohan Joseph Modayil, Member ASRB at the award ceremony.

Dr. G. Syda Rao, Director, CMFRI, Dr. S. Ayyappan, DDG (Fy) and Dr. Mohan Joseph Modayil, Member ASRB at the award ceremony
CMFRI for its outstanding work in the development of marine fisheries related technologies and their dissemination. The award which carries an amount of Rs. 5 lakh and a citation was received by Dr. G. Syda Rao, Director, CMFRI from the Hon'ble Union Minister for Agriculture Shri Sharad Pawarji. The award was received during the ICAR Award Ceremony on 16th July, 2008, the Foundation Day of ICAR, at New Delhi.

Central Marine Fisheries Research Institute, Kochi, Kerala

Citation

Among the big institutes, the Sardar Patel Outstanding ICAR Institution Award 2007 is bestowed upon the Central Marine Fisheries Research Institute, Kochi, Kerala, for its outstanding work in the development of marine fisheries related technologies and their dissemination.

The Central Marine Fisheries Research Institute (CMFRI), one of the eight fisheries institutes under the ICAR through its research and developmental activities in marine fisheries during the last six decades, has been able to sustain marine fish production through development and recommendations on resource management strategies and policy advisories to the Government of India for fisheries governance. The Institute has been responsible for developing time series database on marine fish production from the Exclusive Economic Zone of the country, their biology, distribution, abundance, fishery forecast, potential yield, stock assessment and in formulating management measures for sustainable production. The Institute also addressed issues of ecosystem health, biodiversity conservation and coastal pollution. The technologies developed for culture of finfishes, pearls, mussels, clams, crabs, lobsters, sea-cucumber and seaweeds and other cultivable organisms in open seas have opened avenues for entrepreneurship development, increased production, employment generation, women empowerment, upliftment of the fisher-folk and growth of the fishing industry. The credit for earning substantial foreign exchange through large-scale shrimp farming in the country is the result of the adoption of the hatchery technologies for shrimps developed by the Institute. The coastal mariculture development through bivalve farming is the outcome of the CMFRI technology dissemination activities. The HRD and out-reach extension programmes of the Institute have an enduring impact on the sector. The CMFRI has demonstrated its commitment to the overall fisheries development in the country through its R&D work and a mission to ensure equitability and sustainability.
Open sea cage farming at Visakhapatnam - a new initiative by CMFRI

CMFRI has successfully demonstrated open sea cage culture for the first time in India. The project was sponsored by the Department of Dairying, Animal Husbandry and Fisheries, Ministry of Agriculture, Government of India and headed by Dr. Mohan Joseph Modayil, the former Director of the Institute.

The cage was first launched on 30th April, 2007 at Visakhapatnam. After 40 days of installation, the cage was washed ashore due to multiple problems. However, the survival and growth of fish was encouraging. In this backdrop, the 2nd generation cage, incorporating the needed modifications and improvements in structural engineering and mooring aspects was launched on 11th December, 2007. The cage was designed and fabricated at Visakhapatnam under the supervision of Dr. G. Syda Rao, who is the present Principal Investigator of the Project. The newly designed cage has been found to be very sturdy and is able to withstand the currents. The local diving agency, local cage manufacturer and Institutions like IIT Kharagpur and Visakhapatnam Port Trust have played significant roles in the successful implementation of the technology. The cage has an inner diameter of 15 m and is provided with a catwalk, railing and a stable HDPE net. The cage net is about 6 m deep with a cone shaped bottom and is protected by a predatory net. On the top of the cage railing, bird net is provided to prevent the bird attacks. The entire cage was positioned by ballast and ropes tied to the mooring chain to withstand and absorb the pressure of currents, wind etc. The total volume of the net is about 850 cubic meters and can hold up to 25 - 30 tonnes of live fish at a
given time. The cage was moored at a depth of 11 m, about 300 m from the shore line on RK beach at Visakhapatnam. Although the cage site was prone to strong waves and underwater currents, the cage was able to withstand them.

A total of 1400 seeds of Asian sea bass (Lates calcarifer), weighing 14.5 g on an average, were acclimatized from 0 to 30 ppt salinity and stocked in the cage on 23rd December, 2007. The stocked fishes were fed with low-value trash fish on a daily basis. The environmental parameters were regularly monitored. Traditional fishermen co-operative society was helping for the daily maintenance of the cage, including feeding and cleaning. The harvesting was planned during the month of April, since this is a lean period in obtaining trash fishes, due to trawl ban on the east coast. The harvesting was done after 4 months of culture, on 28th April, 2008. The harvest was formally inaugurated by Dr. Mohan Joseph Modayil, Member, ASRB in the presence of the then acting Director, Dr. N.G. K. Pillai and Dr. G. Syda Rao, who was the then SIC of Visakhapatnam Regional Center. Besides, a host of officials from various central and state government organizations, NGOs, fishermen societies and promising entrepreneurs were present. At the time of harvest, the fishes weighed 500 g on an average; the maximum observed size was 32 cm and the maximum weight attained was 1.2 kg.

Cage culture of fishes in open sea is new to the country and will definitely help in augmenting fish production, besides attracting private entrepreneurs to take up this mariculture enterprise. The local fishermen will also be benefitted, as this will generate employment opportunities. The first indigenous open sea floating cage farming at Visakhapatnam has successfully demonstrated the viability of such promising mariculture ventures.

(Visakhapatnam Regional Center)
Marine fish landings of India during the first quarter of 2008

- The marine fish landings of India during the first quarter of 2008 has, provisionally been estimated as 7,97,771 lakh tonnes.
- The sector-wise contribution of fish landings were: mechanized landings 75%, motorized landings 19% and artisanal landings 6%.
- The pelagic finfishes constituted 49%, demersal fishes 31%, crustaceans 16% and molluscs 4% of the total landings.
- The region-wise estimated fish production showed that the north-east region, comprising West Bengal and Orissa coasts contributed 19% to the total production. South-east region consisting of Andhra Pradesh, Tamil Nadu and Pondicherry coasts contributed 22.9%. On the west coast, south-west region comprising Kerala, Karnataka and Goa recorded 27.4% of the total, whereas, the north-west region comprising Maharashtra and Gujarat accounted for 30.7%.
- Oil sardine landings were estimated as 1,24,642 t (15.6% of the total).
- Penaeid shrimp landings were 53,192 t (6.7% of the total).
- Indian mackerel landings were 25,594 t (3.2% of the total).
- Landings of croakers were 63,389 t (8% of the total).

Inventory on vulnerability of coastal fishing villages

Many of the coastal fishing villages are vulnerable to sea level rise as they are located close to the seashore. To identify the most vulnerable villages, a survey on the distance from high-tide line (HTL) to each fishing village was undertaken. Demographic details and infrastructure available in the fishing villages of maritime states were collected. There are about 2643 fishing villages along the Indian coast, of which 458 are within 100m from the high tide line. The population in these 458 villages is around 1 million. The largest number of coastal fishing villages (about 200) within 100 m are in Kerala. The data on vulnerable fishing villages will be useful to sensitize the fishing communities on the perils of rising sea level and to take up appropriate disaster management measures.

( Demersal Fisheries Division)

वर्ष 2008 की पहली तिमाही में भारत की समुद्री मछली का अवतरण

- वर्ष 2008 की पहली तिमाही में भारत की समुद्री मछली का अवतरण 7,97,771 लाख टन आकलित किया गया।
- मछली अवतरण का संकेतरस्थ योगदान: योग्यता अवतरण 75%, मोटोरोक्लूट अवतरण 19% और कारेक्टरिस अवतरण 6% थे।
- कुल अवतरण में 49% केलाकेली पक्षिमधळी, 31% समुद्री मछली, 16% कस्टोल्जन मछली और 4% माल्सफ उपस्थित थी।
- क्षेत्रकर मछली उत्पादन के आकलन से यह दिखाया गया कि पश्चिम बंगाल और उड़ीसा तट के उत्तर-पूर्व क्षेत्र से कुल मछली उत्पादन का 19% प्राप्त होता है। आंध्र प्रदेश, तमिल नाडु और पूड़ीनेरी के दक्षिण-पूर्व क्षेत्र से 22.9% प्राप्त होता है। केरळ, कर्नाटक और गोवा के दक्षिण-पश्चिम क्षेत्र से 27.4% और महाराष्ट्र और उत्तराखण्ड के उत्तर-पश्चिम क्षेत्र से 30.7% मछली प्राप्त होती है।
- तालांकों का अवतरण 1,24,642 टन (कुल अवतरण का 15.6%) आकलित किया गया।
- पेंसिन्आईड झीलों का अवतरण 53,192 टन (कुल अवतरण का 6.7%) आकलित किया गया।
- भारतीय झीलों का अवतरण 25,594 टन (कुल अवतरण का 3.2%) आकलित किया गया।
- झारखंड का अवतरण 63,389 टन (कुल अवतरण का 8%) आकलित किया गया।

(Fishery Resources Assessment Division)
**Underwater survey at Nethrani**

The scientists of the Marine Biodiversity Division at the Mangalore and Karwar Research Centres conducted underwater surveys and transects in Nethrani coral reef ecosystem. The surveys were carried out in four different sites around the island for corals and associated fauna, including coral fishes, molluscs, crustaceans and sponges. Ninety two species of fishes belonging to 36 families were observed. *Odonus niger* was the dominant species (30%), followed by *Caesio teres* (12%). Fifteen species of molluscs belonging to 13 families were observed along the transect. Hydrographic parameters like temperature, pH, dissolved oxygen, nutrients and productivity were estimated in all the sites.

(Mangalore and Karwar Research Centres)

**Coral reef survey at Grande Island off Goa**

Underwater surveys were conducted in the coral reef ecosystem around Grande Islands off Goa during April, 2008. Transects were made in four sites around the island to study the coral and associated reef fauna. Thirteen species of corals and 2 species of crabs were recorded. Fishes belonging to the family Chaetodontidae, Sparidae, Pomacanthidae, Pomacentridae and Labridae were observed in the transect. The molluscan fauna present in the reef belonged to the family Trochidae, Cypraeidae and Conidae.

(Mangalore and Karwar Research Centres)
Hyalonema (Cyclonema) apertum apertum recorded in the eastern side of North and Central Andaman waters

The hexactinellids constitute one of the important members of deep-sea communities, many of which remain unsampled or poorly sampled. One of the sponges collected during the cruise on board FORV Sagar Sampada (Cruise No.252) from the eastern side of North Andaman waters at 13°06’ N lat. and 93°11’ E long. was identified as Hyalonema (Cyclonema) apertum apertum. This species, collected at a depth of 402m, belonged to the Class Hexactinellida, Order Amphidiscosida and Family Hyalonematidae. The body was spindle-like, followed by basalia in the form of long twisted spicules. Identical specimens collected from 12°57’ N lat. & 93°07’ E long. and 12°45’ N lat. & 93°09’ E long. confirmed the presence of H. (Cyclonema) apertum apertum in the Central Andaman waters too.

(Pelagic Fisheries Division & Marine Biodiversity Division)

Dolphin washed ashore at Kamat Bay, Karwar

A dolphin was found washed ashore in a mutilated and putrefied condition on 22nd June, 2008 at Kamat Bay, Karwar. Samples of skin and bones were sent to CMFRI Headquarters, Cochin for confirmation of species by DNA analysis.

(Karwar Research Centre)

Baleen whale washed ashore at Dona Paula beach, Goa

A baleen whale was washed ashore on 18th June, 2008 at Dona Paula beach, Goa.

(Karwar Research Centre)

Landing of larger sciaenids by gill netters at Veraval

There was significant landing of larger sciaenids Protonibea diacanthus (12 t) and Otolithoides biauritus (9.2 t) by gill netters in the month of April and May 2008. The catch of 10.2 t of ghol recorded in the month of May is the highest catch recorded by gillnetters in a particular month at Veraval.

(Veraval Regional Centre)

Virgin landing of triggerfish Canthidermis maculata by gill netters at Veraval

The spotted oceanic triggerfish, Canthidermis maculata was landed for the first time at Veraval on 2nd
April, 2008 and approximately 5 kg were landed by two gill netters at Old Light House gill net landing centre. (Veraval Regional Centre)

**Marbled electric ray, Torpedo sinuspersici noticed in Malabar coast**

Occurrence of a marbled electric ray, *Torpedo sinuspersici* was noticed in the trawl landings during the last week of May, 2008. This is the first record of this species along the Malabar coast. The marbled electric ray is a demersal species usually found on sandy or muddy seabeds at depths between 10-30m and well offshore from the surf zone down to 200m. It often remains buried during the day, but swims in search of prey at night. *T. sinuspersici* is a small-sized ray, rarely reaching over 130 cm in length. This species is characterized by thick and flabby dorso-ventrally flattened body, rounded snout, small eyes, spiracles at the top of head, rounded wings, pectoral discs and a well developed caudal fin. *T. sinuspersici* has a marbled, pale and dark brown colouration. The observed specimen measured 52 cm and the disc measured 28 cm. (Calicut Research Centre)

**Stegostoma fasciata - a rare shark landed at Puthiyappa Harbour**

A rare shark, *Stegostoma fasciata* measuring about 3 ft. and weighing 5.6 kg was landed at the Puthiyappa Fisheries Harbour on 6th June, 2008. (Calicut Research Centre)

**Whale shark landed at Visakhapatnam fishing harbour**

A whale shark was landed at Visakhapatnam fishing harbour on 24th June, 2008. The shark which measured 401 cm in fork length was found entangled in a large mesh sized gill net locally known as Panduvala. This shark was found to have no demand in the local market. (Visakhapatnam Regional Centre)

(Visakhapatnam Regional Centre)
Dr. P.S. Asha, Scientist (SS), Tuticorin Research Centre of CMFRI received the prestigious 'Jawaharlal Nehru Award' for Outstanding Post-graduate Agricultural Research 2007 for her contribution on 'Reproductive aspects and larval & juvenile rearing of Holothuria (Theelothuria) spinifera'. The work carried out by Dr. Asha on H. spinifera will be useful for large-scale seed production of this commercially important, but highly depleted sea cucumber species.

Dr. V.V. Singh, Principal Scientist, Bombay Research Centre received the 'Best Paper Award' (for Region 'A') during the National Seminar in Hindi on 'Coastal zone management' held at CMFRI, Cochin on 30th May 2008.

Smt. Bindu Sulochanan, Scientist, Mandapam Regional Centre received the 'Best Paper Award' (for Region 'C') during the National Seminar in Hindi on 'Coastal zone management' held at CMFRI, Cochin on 30th May 2008.

Dr. E. Vivekanandan, Head, Demersal Fisheries Division participated in the workshop organized by the FAO in collaboration with the Southeast Asian Fisheries Development Center on 'Assessment and Management of Offshore Fisheries Resources in South and Southeast Asia' at Bangkok, Thailand from 17th to 19th June, 2008.

Dr. G. Gopakumar, Head, Mariculture Division and Dr. K. Madhu, Sr. Scientist participated in a training programme on 'Cobia culture' at Vietnam from 25th May to 25th June, 2008. Various aspects of hatchery production of Cobia (Rachycentron canadum) such as broodstock development, induction of spawning, incubation and hatching of eggs, artificial feed production and larval and fingerling rearing were studied.
Assessment of myctophid resources in the Arabian Sea and development of harvest and post harvest technology

Funding Agency: Ministry of Earth Sciences, Govt. of India

The yields from the largely coastal water-based marine fisheries of India is stagnating and the available option to increase production is through coastal aquaculture and exploitation of oceanic resources, including the unexploited mesopelagics. Among the mesopelagic fishes, the most dominant are the fishes belonging to the order Myctophiformes (lantern fishes) that contribute abundantly to the micro nektonic biomass of the Deep Scattering Layer (DSL).

The Myctophids have assumed importance in recent years in view of their potential for exploitation, human consumption, for production of fish meal/oil and as a source of animal protein. Though not preferred as an edible item, owing to the very high lipid content in its meat, the potential for using it in the preparation of animal/aquaculture feeds is very high.

Though the possibility that lantern fishes could support significant fisheries globally has been known since the 1960's, there were hardly few attempts in this direction from the seas around India.

Under the MoES funded project, it is proposed to undertake surveys in the Central and Western Arabian Sea with a holistic approach. The study is expected to identify the geographic region, depth and seasons of abundance of myctophids. Once a viable harvesting technology is evolved, it is expected to supplement the oceanic production. The research results would facilitate the estimation of stock size of a little known realm, resource with lots of apprehension and fears among the entrepreneurs.

(Pelagic Fisheries Division)
Outreach Activities

Training programmes organized by Molluscan Fisheries Division

- The Molluscan Fisheries Division with the help of HRD Cell and ADAK conducted 5 training programmes which included 'Depuration of bivalves', 'Mussel and edible oyster farming' and 'Mabe pearl production'. A total of 20 officials from the Tamil Nadu State Fisheries Department and 193 coastal farmers from Kerala were trained. The Tamil Nadu State Fisheries officials were trained in aspects like preparation of projects, loans and subsidies, project implementation; culture procedures like seed collection techniques, seeding or ren making, raft and rack construction, farm management, harvest, depuration, processing, value addition, marketing and economics.

- Dr. Geetha Sasikumar, Scientist (SS), MFD and Shri. G. Subhramanya Bhatt, Technical Officer, DFD, imparted training on mussel and oyster farming to 30 fishermen at Kundapura, Udupi district on 16th July, 2008 in association with the Department of Fisheries, Government of Karnataka and BFFDA.

Trainings organized by KVK

The Krishi Vigyan Kendra, Narakkal organized a total of 11 training courses for 206 beneficiaries including 2 courses in Fisheries for 72 beneficiaries, 4 in Agriculture for 47 beneficiaries and 5 in Home Science for 87 beneficiaries. The beneficiaries included practicing farmers, rural youth and extension functionaries. The different topics covered under the training programmes included, coastal aquaculture, ornamental fish culture, integrated pest management in banana and jasmine, mushroom cultivation, Pokkali paddy cultivation, fruit preservation, value addition of mussel and fish.

Participants and faculty of the training programme

Training session on mussel and oyster farming in progress

Home Science scientists of Thiruvarur KVK being trained in value addition of fish
### Front Line Demonstration (FLD) and On Farm Testing (OFT)

#### Disciplines

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<td><strong>Agriculture</strong></td>
<td>Cultivation of tissue culture banana in Mookkannur village near Angamaly</td>
<td>Disease management in Jasmine farming using biocontrol agents, <em>Trichoderma &amp; Pseudomonas</em> - achieved recovery of plants from root rot disease and increase in yield</td>
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<td><strong>Home Science</strong></td>
<td>Fabrication and use of Hay box for energy saving in cooking and drudgery reduction-yielding promising results</td>
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### KVK Programmes under Kerala State planning Board funding

The KVK has also undertaken OFT of the new Pokkali paddy variety, *Vyttila-7* at Kumbalam Village and FLD of cultivation of another Pokkali variety, *Vyttila-6* in Kadamakkudy village, Ernakulam.

### Farmers' Meet/Mahila Meet/Mela organized

- A Field Day was organized in connection with the inauguration of the culture of sea bass in a farmer's pond at Cherai on 5th May, 2008. A total of 58 persons including farmers, farm labourers, fishermen, extension personnel and media staff participated in the programme.

### अग्रगामी निदर्शन (एफ एल डी) & खेत परीक्षण (ओ एफ टी)

#### किस्म

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#### मालिकी

1. एरागकुलम निलक के चेनामंगल पंचायत के गोथुरुलू गाँव के परब जल में रेक यथवास में हरित रेउ, पेंनी विकिंडिया का रसी पालन
2. एरागकुलम निलक के समुद्री आवास में धीरा व्यवस्था में हरित रेउ, पेंनी विकिंडिया का रसी पालन

#### कृषि

- अग्रमाली के निकट मुकेशनूर गाँव में उत्तर संवेंद्र द्वारा विकिंडिया केला का पेलाअर
- **यूनियन**

#### यूनियन

- रसोई में ऊजां संसरण और कठी जलस्तरी कम करने के लिए जूस की डाइला का निर्माण-उन्नयनीय प्रगति
A Farmers’ awareness programme was organized at Kottapuram village in Ernakulam District on 7th May, 2008 in collaboration with Kottapuram Integrated Development Service (KIDS). A total of 64 farmers participated in the programme.

A Harvest Mela was organized on 15th May, 2008 in connection with the harvesting of green mussel, *Perna viridis* cultured on rope on rack system at Gothuruthu Village, Ernakulam.

A Mela was organized at KVK campus, Narakkal in connection with the harvesting of mussel cultured on raft system in coastal waters at Narakkal on 21st May, 2008. Farmers, fishermen, President and Members of local administration and officials of developmental agencies including the MPEDA participated.

A Mahila Meet was organized at Arayankavu, Ernakulam District on 3rd June, 2008. More than 50 persons including members of Union Bank Farmers’ Club, bank officials and extension personnel participated in the programme.

Mass Media Programmes

Dr. K. Asokakumaran Unnithan participated in an interview on ‘Scope for fish culture and need for proper training’ which was broadcasted over the Trichur Station of All India Radio on 5th May, 2008.

Dr. K. Asokakumaran Unnithan participated in an interview on ‘Review on Front Line Demonstration of Mussel culture’ which was broadcasted over the Kochi Station (FM) of All India Radio on 20th May, 2008.

Smt. P. Sreelatha participated in an interview on ‘Value addition of fish’ which was broadcasted over the Kochi Station (FM) of All India Radio on 20th May, 2008.

Smt. P. Sreelatha gave a talk on ‘Training facilities in Home Science at the Krishi Vigyan Kendra of CMFRI, Narakkal’ which was broadcasted over the Trichur Station of All India Radio on 8th June, 2008.

Dr. K. Asokakumaran Unnithan participated in an interview on ‘Krishi Vigyan Kendra at Farmers’...
service' which was recorded on 18th June, 2008 by the Kochi Station (FM) of All India Radio.

- Shri. B. Sureshkumar gave a talk on 'Mushroom cultivation' which was recorded on 18th June, 2008 by the Kochi Station (FM) of All India Radio.

- Facilitated four beneficiary farmers of KVK to present their success stories in different programmes broadcasted over the Trichur Station of All India Radio during April-May, 2008.

**Awareness Programme**

- Awareness Programme on 'CMZ Notification' organised by Malabar Coastal Institute for Training, Research and Action (MCITRA), Calicut was arranged at ATIC on 14th June, 2008 in which 20 stakeholders participated.

**Participation in Exhibitions**

- The KVK participated in an exhibition conducted by Gandhigram Seva Samithi at S.L. Puram in Alleppey District from 20th to 27th April, 2008. The display covered the rural developmental activities of the KVK and the diversified fish products prepared by the beneficiaries. The SEETT Division of CMFRI also participated in the exhibition.

- The Visakhapatnam Regional Centre displayed a stall in the exhibition conducted at CIFA, Bhubaneswar in connection with the Brain storming Meet on 'Aquaculture 2025, challenges and opportunities' on 7th and 8th June, 2008.

**Official Language Implementation**

National Scientific Seminar on 'Coastal Zone Management'

A one day Hindi National Seminar on 'Coastal Zone Management' was organised on 30th May, 2008 at CMFRI, Cochin. The seminar was inaugurated by Smt. Sobha Koshi, IPS, Post Master General, Central Region, Kochi. In her address, Smt. Koshi, highlighted the importance of Coastal Zone Management in coastal cities like Kochi. Dr. N.G.K. Pillai, acting Director, CMFRI presided over the function. Dr. A. Laxminarayana, Head, 2008 को आकाशवाणी कोन्या स्टेशन (एक-एम) द्वारा रिकार्ड किया गया।

- श्री. बी. सुरेशकुमार ने 'ब्यूफेंट पैडलर्स' पर भाषण दिया, जो 18 जून, 2008 को आकाशवाणी कोन्या स्टेशन (एक-एम) द्वारा रिकार्ड किया गया।

- के वी के के चर हिंदी/हिंदीत्थाकियों को समाहित किया गया। पालन कायम में इनकी विशेष गायब अंदेश-माध्यम, 2008 के दौरान के विभिन्न कार्यक्रमों में आकाशवाणी हिंदी स्टेशन द्वारा प्रसारित की गयी।

**प्रदर्शनियों में सहभागिता**

**Participation in Exhibitions**

- के वी के के ने आलीन जिला में एस.एल. पुराम की हिंदी / हिंदी गंगोत्र सेवा संगठन में 20 से 27 अप्रैल, 2008 के दौरान आयोजित प्रदर्शनी में भाग लिया। इसमें कृपया व्यक्तियों को प्रदर्शन विकल्प की गारंटी दिए गए। हिंदी तथा हिंदीत्थाकियों द्वारा तेजी से किए गए विविधताओं के संग्रह उपभोक्ताओं को प्रसारित किया गया। प्रदर्शनी में सी एम एफ अर आर के एस व टीरी भाषा के भाग में भी भाग लिया।

- सी आड एफ, भुवनेश्वर द्वारा 7 और 8 जून, 2008 के दौरान 'जनजीवन पालन 2025, बुवौनिंस और अक्सर' पर आयोजित पालन के निर्देशित संगठन के संगठनीय संस्था में आयोजित प्रदर्शनी में विशेषभाव निर्माण केंद्र पूरा टील सराय।

**राजभाषा कार्यन्वयन**

**Official Language Implementation**

'तटीय में प्रबंधन' पर राज्यीय वैज्ञानिक संगठण

सी एम एफ अर आर, कोची में 30 मई, 2008 को 'तटीय में प्रबंधन' विषय पर एक विशेष हिंदी राज्यीय संगठन प्रदर्शनी आयोजित की गयी।

श्रीमती रंजना बंसल, आई.एस. पॉस्ट मास्टर जनरल, श्रीमती रूस्तेश्वरी, कोची में संगठनों का उद्घाटन किया। अपने भाषण में श्रीमती बंसल ने कोची जैसे तटवर्ती नगरों में तटीय में प्रबंधन की प्राप्ति पर कार्य कहा। डॉ. ए.ए., स्मार्टीय राज्यीय, अक्षय, डॉ. एम.ए. फिल्म, कार्यकारी निदेशक, सीएमएफआई और आईएस एम आई व्याख्या दी।
FEMD and Chief Co-ordinator of the programme welcomed the gathering. Shri Harish Chandra Joshi, Director (Official Language), ICAR, New Delhi, Smt. Roja Sethumadhavan, Sr. Administrative Officer, CMFRI and Shri K.K. Ramachandran, Secretary, Cochin TOLIC delivered felicitations. On this occasion, the Chief Guest released a special Hindi Publication on Coastal Zone Management. Smt. Sheela P. J., Assistant Director (OL) delivered the vote of thanks. A total of 18 research papers were presented by the participants. The paper presented by Dr. V.V. Singh, Principal Scientist, Bombay Research Centre was adjudged as the Best paper from Region 'A' and the paper presented by Smt. Bindu Sulochanan, Scientist, Mandapam Regional Centre was adjudged as the Best paper from Region 'C'. The recommendations and suggestions made in the plenary session were forwarded to ICAR for necessary action.

**Hindi Workshops organized at Calicut Research Centre**

- A one day Hindi Workshop was organized for the staff on 3rd April, 2008. Classes were conducted on various topics including noting and drafting, official correspondence and terminology.

- A one day Hindi Workshop was organized by the Calicut Research Centre for the scientific, technical and administrative staff on 12th June, 2008. The Scientist-in-charge Dr. P.N.R. Nair formally inaugurated the programme by lighting the traditional lamp. The Chief Guest Smt. Celine Varghese, Manager (OL) of SBT and Dr. Jyothi, Hindi Translator, Arecanut Spices Board, Calicut gave the felicitation address. Smt. Celine Varghese conducted a session on 'Administrative and scientific terminology', while Dr. Jyothi conducted a class on 'Hindi grammar and spoken Hindi'.

**Hindi Workshop at Veraval Regional Centre**

- A Hindi Workshop was conducted at Veraval Regional Center of CMFRI on 19th April, 2008.

**Official Language Implementation Committee (OLIC) meetings**

In order to review the progress made in the Official Language Implementation of the Institute, quarterly meeting of the OLIC was held on 17th May, 2008. Meetings were also conducted at Mandapam Regional Centre.
Centre to review the Official Language Implementation programmes of the last quarter and to plan the programmes for the forthcoming quarter.

**Official Language Inspections**

Dr. N.G.K. Pillai, acting Director, CMFRI inspected the Official Language Implementation activities of Calicut Research Centre on 9th April and Mangalore Research Centre on 11th April, 2008.

Shri K.N. Choudhary, Under Secretary (Admn.) inspected the Official Language Implementation activities of Headquarters on 11th June, 2008.

**TOLIC Awards**

- The Town Official Language Implementation Committee, Mangalore has awarded the certificate of Merit to Dr. C. Muthiah, the then Scientist-in-Charge of Mangalore Research Center on 26th May, 2008 in recognition of his outstanding performance in the implementation of the Official Language Policy and in promoting the usage of Hindi in official work during the year 2007-08.
- Mangalore Research Centre has bagged the second prize under Mangalore TOLIC for the efforts taken for the progressive use of Hindi during 2007-2008.

**Events**

**Meditation classes organized**

The Women's Cell of CMFRI organized meditation classes to the staff during 26th to 31st May, 2008. The classes were conducted by Smt. K. Smitha and 45 staff members were benefited from the classes.

**Workshop on Alternative Livelihood Opportunities in Mariculture**

A one day workshop on 'Alternative Livelihood Opportunities in Mariculture' was organized by the Karwar Research Centre of CMFRI in collaboration with the Karnataka State Fisheries Dept. and Kadamba Charitable Foundation (NGO) on 13th June, 2008 at Kumta, Karnataka. The Workshop was attended by over 100 fish farmers and other stakeholders. Shri Anant Kumar Hegde, Hon'ble Member of Parliament, inaugurated the workshop. Dr. V. S. Kakati, Meditation classes organized

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SIC, Karwar Research Centre gave a detailed presentation on 'Sea bass culture and its prospects in Karnataka'. The post-lunch deliberations were devoted to an interactive session with the stakeholders.

**Invited Talk on Marine Biodiversity with special reference to Coral Reefs**

Dr. R. Soundararajan, Principal Scientist & Head, Fish Taxonomy and Resources Division, National Bureau of Fish Genetic Resources (NBFGR), Lucknow delivered a talk on 'Marine Biodiversity with special reference to Coral Reefs' at the Mandapam Regional Centre on 26th June, 2008.

**Workshop on Carangidae**

The Marine Biodiversity Division conducted a four day workshop for preparation of a Monograph on 'Carangidae' at CMFRI Headquarters, Cochin from 12th to 16th May, 2008. The Principal Investigator Dr. K.K. Joshi and the Project Associates from Headquarters and various centres participated.

**International Biodiversity Day celebrated**

The Marine Biodiversity Division organized a one day Workshop on 'Marine Biodiversity: Today and Tomorrow' to commemorate the International Biodiversity Day on 22nd May, 2008 at CMFRI, Cochin. Thirty eight students from various colleges took part in the Workshop.

**National Seminar on 'Biodiversity Regime - Emerging Challenges and Opportunities'**

A National Seminar on 'Biodiversity Regime - Emerging Challenges and Opportunities' was organized by the Mangalore Research Centre of CMFRI at the GSI auditorium on 22nd May, 2008. The participants included the students and staff of Mangalore University, College of Fisheries, Mangalore, voluntary organizations and a host of educational institutions.

**Awareness Programme on World Environment Day**

An Awareness Programme on the World Environment Day was organised by the Mangalore Research Centre at the GSI auditorium on 5th June, 2008. The participants included the students and staff of Mangalore University, College of Fisheries, Mangalore and a host of other educational institutions. A film show to create awareness on 'Environment and climate change' was screened which was followed by elocution and essay competitions.
Annual Day celebration of the staff Recreation Club at Calicut Research Centre

The Annual Day of the staff Recreation Club of Calicut Research Centre was celebrated on 28th May, 2008, with variety entertainments and competitions. Indoor and outdoor game competitions were held for staff and their family members. Thiruvathira Kali, Opana, Kolkali, group songs and solo songs added charm to the competitions. The prestigious 'GPK Achari Endowment Prize' and 'Smt. K. Koumudi Menon Endowment Prize' were given to the wards of the staff for their academic excellence in class X and class XII examinations, respectively.

Rajswa Aryan

Revenue Generation

- An amount of Rs. 15,813/- was generated by ATIC, through sales and services during the period.
- KVK generated an income of Rs.13,441/- through sale of coconut and coconut saplings during the quarter.

Personalia

Headquarters

- In addition to VIPs, 540 farmers, students and entrepreneurs visited the Institute headquarters during the quarter.

Karwar Research Centre

- Prof. (Dr.) S. M. Shivaprakash and Prof. (Dr.) M. N. Venugopal of College of Fisheries, Mangalore visited the Centre along with 28 B. F. Sc. students on 8th April, 2008.
- Dr. V. V. Sugunan, ADG (Inland Fisheries), ICAR and Smt. G. K. Vinci, Principal Scientist, CIFRI, Barrackpore, visited the Centre on 21st May, 2008.

Tuticorin Research Centre

- Mr. Michael Hobday, Penrallt, KTZO 6HL, England visited the Centre.
- Teachers and a total of 254 students from various schools and colleges of Tamil Nadu and Kerala visited the Centre.

Mukhyalaya

- ए टी आई सी द्वारा इस अवसर के दौरान विभिन्न उद्योग और सेवाओं के साथ 15,813/- रुपए की राशि जमाई गई।
- कृषि विभाग केंद्र ने इस तिथि के दौरान नारंग और नारंगी की दानों की राशि का निर्माण किया, इसलिए 13,441/- रुपए की राशि की जमाई गई।

कारार्य अनुसंधान केंद्र

- प्रोफेसर (डॉ.) एस.एम. विज्ञानकाल और प्रोफेसर (डॉ.) एस.एन. वेडुमुद्रास, मलिकी के कालेज 8 अप्रैल, 2008 को वी.एफ.एस. सी के 28 छात्रों के साथ केंद्र का मुआइना किया।
- डॉ. वी.वी. सूरुमुद्र, सहा. मलिकी कोर्ट (अंतरराष्ट्रीय मलिकी), भारतीय संस्थान में प्रगति ग्रहण, एफ.सी. एस. और एफ.एस.एस. डी. एन. 21 मई, 2008 को एक डिग्री का मुआइना किया।

टूटिकोरिन अनुसंधान केंद्र

- लेक्टर वैदिक पे.के. राय, 28 (टीएन) की आईएस.एस. 28 वी.डब्ल्यू वी. एस. सी. विरोध, वर्ड ने केंद्र का मुआइना किया।
- श्री आकाश बेंटल बेड, परेलाल, के टी.डब्ल्यू.डब्ल्यू. दो 6 एफ.एस. एस. डब्ल्यू ने केंद्र का मुआइना किया।
- तीनल नाडु और केंद्र के विभिन्न स्कूलों और कॉलेजों के अध्यापिकों और 245 छात्रों के केंद्र का मुआइना किया।
Mandapam Regional Centre

- Mr. Rakesh Kumar Jagaria, I.F.S., Wildlife Warden-In-Charge, Gulf of Mannar Marine National Park (GMMNP), Ramanathapuram visited the Centre on 21st June, 2008.
- A total of 694 students from various schools/colleges and 1304 general public visited the Centre during the quarter.

Veraval Regional Centre

- Mr. Mohan Kumar, IAS, Chairman, MPEDA visited the Centre on 9th April, 2008.
- Mr. Mohan Kumar, IAS, Chairman, MPEDA visited the Centre on 9th April, 2008.

कार्यक्रम में सहभागिता

Programme Participation

Dr. N.G.K. Pillai, acting Director

- Attended the harvest of cage farmed fish at Visakhapatnam during 25th to 28th April, 2008.
- Held a meeting with the Hon'ble Administrator, U.T. of Lakshadweep at Kavaratti during 6th to 8th May, 2008 to discuss the implementation of the NAIP project.
- Presided over the Mussel Harvest Mela (a front line Demonstration Programme) at Gothuruthu on 15th May, 2008.
- Attended the National Seminar on 'Biodiversity Regimes - Emerging Challenges and Opportunities' organized in connection with the International Biodiversity Day at Mangalore Research Centre on 22nd May, 2008.
- Participated in the formal launching of bio-refinery for input production at Pazhampallichal, Adimali on 23rd May, 2008.
- Attended the Task Force Meeting on Aquarium Reforms constituted with the International Biodiversity Day at Mangalore Research Centre on 22nd May, 2008.
- Attended the Brainstorming Session on 'Development of Island Fisheries' and presented a paper entitled 'Development of tuna fisheries in Andaman and Nicobar Islands' at CARI, Port Blair and visited the CMFRI Field Lab at Port Blair implementing the MoES funded project on 'Black lip pearl oyster farming and pearl production' during 19th to 22nd June, 2008.
- Attended a meeting with the Principal Chief Conservator of Forests & Chief Wildlife Warden, Tamil Nadu at Chennai on 26th June, 2008.

Dr. E. Vivekanandan, Head, Demersal Fisheries Division

- Participated in MoES/CMLRE meeting at New Delhi and presented the salient research findings of MoES funded project on Marine Mammals on 6th to 7th April, 2008. The Hon'ble Union Minister for Earth Sciences, Shri Kapil Sibal released the 'Marine Mammal Atlas' during the press conference
- Attended the meetings related to Fisher Institute of Technology & Trawling and Gulf of Mannar Biosphere Reserve Trust at Chennai on 17th April, 2008.
Attended the Residential Workshop on Fisheries Management and presented a paper on ‘Overview of Indian Fisheries – Fisheries Management with ecosystem approach’ organized by SIFFS, Trivandrum at Asir Bhavan, Ernakulam on 22nd April, 2008.

Participated and presented a paper in the National Seminar on Biodiversity organized by Mangalore Research Centre of CMFRI on 22nd May, 2008.

Participated in the Annual Review meeting of the ICAR Network Project on Climate Change held on 23rd to 24th June, 2008 at Central Research Institute for Dryland Agriculture, Hyderabad and made a presentation on the progress of work by CMFRI.

Dr. E. V. Radhakrishnan, Head, Crustacean Fisheries Division

Attended the 1st meeting of Consortium Implementation Committee (CIC) of the NAIP on 24th April, 2008.

Attended the Official Language Implementation Committee meeting on 17th May, 2008.

Visited Kavaratti and Agati Islands from 6th to 9th May, 2008 and held discussions with Director of Fisheries and Lakshadweep Administration regarding implementation of the NAIP Project ‘A value chain on oceanic tuna fisheries in Lakshadweep sea’.

Attended the Brain storming meet on ‘Development of Island fisheries’ at CARI, Port Blair on 21st and 22nd June, 2008.

Dr. R. Sathiadhas, Head, Socio Economic Evaluation & Technology Transfer Division

Participated in the formal launching of bio-refinery for input fisheries’ at CARI, Port Blair on 21st and 22nd June, 2008.

Attended a Workshop on the ‘Commercialization of pearl culture from 25th May to 24th June, 2008.

Dr. R. Madhu, Head, Mariculture Division and Dr. K. Madhu, Sr. Scientist

Participated in a National Seminar on ‘Biodiversity Regimes - Emerging Challenges and Opportunities’ organized in connection with the International Biodiversity Day at Mangalore Research Centre on 22nd May, 2008.

Dr. G. Gopakumar, Head, Mariculture Division and Dr. K. Madhu, Sr. Scientist

Attended the Brain storming meet on ’Aquaculture 2025,’ organized at CMFRI, Cochin on 30th May, 2008.

Dr. K. Madhu, Head, Marine Biodiversity Division

Participated in the training programme on ‘Cobia culture’ at Vietnam from 25th May to 24th June, 2008.

Dr. V. Kripa, Principal Scientist

Attended a Workshop on the ‘Commercialization of pearl culture (Pinctada fucata)’ funded by the Ministry of Earth Sciences at Cochin on 27th May, 2008.

Participated and presented a paper in Hindi on ‘Mabe pearl production in Andaman and Nicobar Islands’ in the Seminar on ‘Coastal Zone management’ organized at CMFRI, Cochin on 30th May, 2008.

Attended the project evaluation meeting and served as Member of the Evaluation Committee constituted by the Gulf of Mannar Biosphere Reserve Trust (GOMBRT) to assess the progress of their funded projects at Chennai on 14th May, 2008.

Dr. P. Kaladharan, Principal Scientist

Attended the Annual Fishery Survey assessment and research programme at FSI, Visakhapatnam on 4th April, 2008.

Dr. Prathibha Rohit and Dr. Sheela Immanuel, Senior Scientists

Attended the Brain storming meet on ’Aquaculture 2025,’
challenges and opportunities’ at CIFR, Bhubaneswar from 7th to 8th June, 2008.

Dr. P. U. Zacharia, Sr. Scientist
- Participated in the National Seminar on ‘Biodiversity regimes - emerging challenges and opportunities’ organized by Mangalore Research Centre of CMFRI on 22nd May, 2008 and presented an invited paper on ‘Marine and estuarine biodiversity of coastal Karnataka’.

Dr. K.K. Joshi, Sr. Scientist, Dr. Molly Varghese, Sr. Scientist, Smt. S. Jasmine, Scientist (S.G.), Smt. Rekha J. Nair, Scientist (S.G.), Dr. M. Vijayakumaran, Scientist and Smt. Sandhya Sukumaran, Scientist
- Attended the Workshop on carangids conducted at the Marine Biodiversity Division, CMFRI HQ, Cochin from 24th to 28th May, 2008.

Dr. T.V. Sathianandan, Sr. Scientist and Dr. J. Jayasankar, Sr. Scientist
- Attended a one day seminar on ‘WTO and its impact on Indian seafood trade’ at CIFT, Cochin on 28th June, 2008.

Dr. P. Laxmiathra, Sr. Scientist
- Participated as a resource person in the awareness-cum-training programme organized by ADAK on ‘Depuration of mussels’ at Cheruvathur, Kasargod on 25th June, 2008.

Shri K. P. Said Koya, Scientist (SG)
- Attended the 1st meeting of Consortium Implementation Committee (CIC) of the NAIP on 24th April, 2008.

Smt. U. Ganga, Scientist (SS)
- Participated in the MDP Workshop on ‘Policy and Prioritization, Monitoring and Evaluation (PME) support to National Agricultural Innovation Project’ at the National Institute of Rural Development, Cheruvathur, Kasargod on 25th June, 2008.

Smt. T. S. Naomi, Scientist (S.G.) and Smt. Rekha J. Nair, Scientist (S.G.)
- Attended a demonstration-cum-training on ‘SYSTAT’ conducted by Cranes Software Inc. under FRAD on 9th April, 2008.

Dr. M. Vijayakumaran, Sr. Scientist and Dr. P.S. Swathi Lekshmi, Scientist
- Attended the National Workshop on ‘Coastal Resources Conservation and Enterprises Development’ at CODP, Nandur, Mangalore on 29th June, 2008.

Dr. A.P. Dineshbahu, Scientist-in-Charge, Mangalore Research Centre, Dr. Geetha Sasikumar, Scientist (SS) and Dr. Sujitha Thomas, Scientist
- Attended the National workshop on ‘Status of aquatic pollution and its abatement’ held at the College of Fisheries, Mangalore on 30th June, 2008.

Dr. G. Mohanraj, Principal Scientist & SIC, Dr. P.K. Asokan, Sr. Scientist, Dr. Gulshad Mohammed, Scientist (SS) and Dr. Shubhadeep Ghosh, Scientist
- Participated in the discussions with MPEDA Chairman, Mr. Mohan
Dr. Shubhadeep Ghosh, Scientist
- Conducted a seminar for forty fishermen from Okha and Jakhuai at VRC of CMFRI on 15th April, 2008.

Dr. Gulshad Mohammed, Scientist (SS) and Dr. Shubhadeep Ghosh, Scientist
- Participated in the Krishi Mahotsav Rath at Ambaliyada village on 30th May, 2008.

Dr. Gulshad Mohammed, Scientist (SS)
- Participated in the 20th ICAR Regional Committee Zone – VI meeting held at CACRI, Jodhpur from 26th to 27th June, 2008.

Dr. V.D. Deshmukh, Principal Scientist & SIC, Mumbai Research Centre
- Participated in the Fishery Survey of India Zonal Consultative Group meeting at Fishery Survey of India, Zonal Base, Mumbai on 7th April, 2008.
- Participated in the IX Consultative Committee meeting of Fishery Survey of India on 22nd April, 2008.

Dr. V.V. Singh, Principal Scientist
- Participated in the meeting on 1st April, 2008 with Brihanmumbai Municipal Corporation, Mumbai for finalization of agenda for a meeting with fishermen.

Smt. Paramita Banerjee Sawant, Scientist
- Attended a lecture on ‘Environmental impact assessment studies requirements approach and issues with special reference to coastal fish and fisheries of India’ at CIFE, Mumbai on 13th June, 2008.

Smt. Roja Sethumadhavan, Sr. Administrative Officer and Smt. E.K. Uma, Technical Officer (Hindi)
- Participated in the 48th meeting of Cochin Town Official Language Implementation Committee held on 22nd May, 2008 at Cochin.

Smt. Sheela P.J, Assistant Director (OL)
- Participated in the Hindi staff meeting of Cochin Town Official Language Implementation Committee on 26th June, 2008 at Cochin.

Dr. K. Asokakumar Unnithan, Scientist-in-Charge, KVK
- Participated in the meeting of AICRP XI Plan Scheme (ICAR) on ‘Scaling up of water productivity in agriculture for livelihood through teaching-cum-demonstration’, held at Agricultural Research Station of KAU at Chalakudy on 24th May, 2008.

Shri B. Sureshkumar, Technical Officer, KVK
- Participated in the meeting of AICRP XI Plan Scheme (ICAR) on ‘Scaling up of water productivity in agriculture for livelihood through teaching-cum-demonstration’, held at Agricultural Research Station of KAU at Chalakudy on 24th May, 2008.
- Participated in the District level Nodal Agency Meeting of National Watershed Development programme (NWDPRA-X Plan) held at Ernakulam on 16th June, 2008.

Kumar, IAS, scientists of CIFF, fisheries officials from Gujarat State Govt., boat owners and industrialists on the environmental issues of fishing harbor on 9th April, 2008.
- Participated in the discussions and demonstration of onboard tuna long lining in a long liner on 5th April, 2008.

Dr. Shubhadeep Ghosh, Scientist
- Conducted a seminar for forty fishermen from Okha and Jakhuai at VRC of CMFRI on 15th April, 2008.

Dr. Gulshad Mohammed, Scientist (SS) and Dr. Shubhadeep Ghosh, Scientist
- Participated in the Krishi Mahotsav Rath at Ambaliyada village on 30th May, 2008.

Dr. Gulshad Mohammed, Scientist (SS)
- Participated in the 20th ICAR Regional Committee Zone – VI meeting held at CACRI, Jodhpur from 26th to 27th June, 2008.

Dr. V.D. Deshmukh, Principal Scientist & SIC, Mumbai Research Centre
- Participated in the Fishery Survey of India Zonal Consultative Group meeting at Fishery Survey of India, Zonal Base, Mumbai on 7th April, 2008.
- Participated in the IX Consultative Committee meeting of Fishery Survey of India on 22nd April, 2008.

Dr. V.V. Singh, Principal Scientist
- Participated in the meeting on 1st April, 2008 with Brihanmumbai Municipal Corporation, Mumbai for finalization of agenda for a meeting with fishermen.

Smt. Paramita Banerjee Sawant, Scientist
- Attended a lecture on ‘Environmental impact assessment studies requirements approach and issues with special reference to coastal fish and fisheries of India’ at CIFE, Mumbai on 13th June, 2008.

Smt. Roja Sethumadhavan, Sr. Administrative Officer and Smt. E.K. Uma, Technical Officer (Hindi)
- Participated in the 48th meeting of Cochin Town Official Language Implementation Committee held on 22nd May, 2008 at Cochin.

Smt. Sheela P.J, Assistant Director (OL)
- Participated in the Hindi staff meeting of Cochin Town Official Language Implementation Committee on 26th June, 2008 at Cochin.

Dr. K. Asokakumar Unnithan, Scientist-in-Charge, KVK
- Participated in the meeting of AICRP XI Plan Scheme (ICAR) on ‘Scaling up of water productivity in agriculture for livelihood through teaching-cum-demonstration’, held at Agricultural Research Station of KAU at Chalakudy on 24th May, 2008.

Shri B. Sureshkumar, Technical Officer, KVK
- Participated in the meeting of AICRP XI Plan Scheme (ICAR) on ‘Scaling up of water productivity in agriculture for livelihood through teaching-cum-demonstration’, held at Agricultural Research Station of KAU at Chalakudy on 24th May, 2008.
- Participated in the District level Nodal Agency Meeting of National Watershed Development programme (NWDPRA-X Plan) held at Ernakulam on 16th June, 2008.
### APPOINTMENTS

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<th>Center / केंद्र</th>
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<td>Madras RC</td>
<td>17.03.2008 (F/N)</td>
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<td>डॉ. सत्यनारायण सेठी</td>
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### PROMOTIONS

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### Assumption of Charge / पदभार ग्रहण

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<td>Head, FRAD</td>
<td>Hqrs., Kochi</td>
<td>01.05.2008</td>
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<tr>
<td>Shri G. P. Sharma</td>
<td>Senior Finance &amp; Accounts Officer</td>
<td>Hqrs., Kochi</td>
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Dr. E. Vivekanandan, PS & Head, DFD will hold the charge of Member Secretary, RAC

Dr. E.V. Radhakrishnan, PS & Head, CFD assumed charge of Member (OS), IJSC of CMFRI

Shri P. J. Davis, AAO assumed charge of Secretary (OS), IJSC of CMFRI

Dr. M. Rajamani, PS assumed charge of SIC, Mandapam Regional Centre

Dr. Gulshad Mohammed, Scientist (SS) assumed charge of SIC, Veraval Regional Centre

### Transfers / स्थानांतरण

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<td>ICAR, Hqrs., New Delhi</td>
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<td>Veraval RC</td>
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<tr>
<td>Shri Balasubramanian</td>
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<td>Senior Scientist</td>
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*Note: All transfers are subject to approval.*
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<td>Hqrs., Kochi</td>
<td>30.06.2008</td>
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**Voluntary Retirement / व्यक्तिमुख्य सेवानिवृत्ति**

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<tr>
<td>Dr. R. Paul Raj</td>
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<td>Hqrs., Kochi</td>
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CMFRI Newsletter

CMFRI Newsletter is a quarterly publication of the Central Marine Fisheries Research Institute, Cochin. The publication gives an insight into the major events of the quarter, besides highlighting the salient findings in the research front and dissemination of technological know-how to the farming community.

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Published by: The Director,
Central Marine Fisheries Research Institute, Cochin - 682 018
Telephone: 0484-2394867 Fax: 91-484-2394909
E-mail: mdcmfri@mdz.vsnl.net.in Website: www.cmfri.org.in