



हर कदम, हर उमर
किसानों का हमाराफर
भारतीय कृषि अनुसंधान परिषद

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ISSN NO. 2321- 6220

ICAR - KVK ERNAKULAM Newsletter

April 2018 - September 2018 | Issue No: 20



Shri. Antony John, MLA Inaugurating Periyar Valley Spices Farmer Producer Company Ltd



FLD on Mannuthy white piglets



ICAR - KRISHI VIGYAN KENDRA (ERNAKULAM)

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Mandates

The overall mandate of ICAR-KVK is to develop and disseminate location specific technological modules at district level through Technology assessment, refinement and demonstration and to act as knowledge and resource centre for agriculture and its allied activities. The specific activities to carry out this mandates are:

- Conducting on-farm testing to identify the location specificity of agricultural technologies under various farming systems
- Organizing frontline demonstrations to establish production potential of various crops and enterprises in farmer's fields
- Organizing need based training for farmers to update their knowledge and skills in modern agricultural technologies related to technology assessment, refinement and demonstration, and training of extension personnel to orient them in the frontier areas of technology development.
- Creating awareness about improved technologies to larger masses through appropriate extension programmes.
- Production and supply of good quality seeds and planting materials, livestock, poultry and fisheries breeds and products and various bio-products to the farming community.
- Work as resource and knowledge centre of agricultural technology for supporting initiatives of public, private and voluntary sector for improving the agricultural economy of the district.



Director's Message



As we all know, Kerala is trying to recover from its worst flooding in a century. People have lost their homes, belongings and their source of livelihood. Many agricultural crops, animals, poultry and fishes have perished due to floods. The surviving crops became prone to many diseases and pest attack. ICAR-Krishi Vigyan Kendra (Ernakulam) of Central Marine Fisheries Research Institute (CMFRI) as part of its commitment towards farmers advised the farmers for reviving and taking precautionary measures in the fields of agriculture, animal husbandry and fisheries. ICAR-Central Coastal Agricultural Research, North Goa, ICAR- Indian Institute of Spices Research, Kozhikode, Kerala state Animal Husbandry Department and Department of Agriculture joined hands with KVK in this endeavour. Joint recommendations on post flood management in Agriculture, Animal husbandry and Fisheries were released. KVK has decided to focus its activities in the flood affected areas in the coming years so as to handhold the affected farmers.

KVK Ernakulam is working towards betterment of agriculture and its allied fields as centre of all its programmes since its inception. As part of promoting safe food production which is the main thrust area of the KVK, quality organic inputs and seeds are being supplied through its sales outlet located at CMFRI, Kochi. KVK is promoting Responsible fish vending that ensures fish delivered to consumers are safe-to-eat and the markets are clean and healthy. One of such markets named Visha vimukta malsya vipani is functioning at Kalamukku fish harbour, Vypeen. In addition, the satellite production centres of KVK established in public-private partnership mode in farmer's fields produce quality planting materials, poultry chicks and fish fingerlings in large-scale.

In order to make available agricultural machinery to all farmers, KVK commenced an Agro machinery custom hiring centre at Kothamangalam operated by M/s Periyar valley Spices farmer producer company Ltd., which was earlier registered and being nurtured by this KVK. KVK trained women task force is operating the machines.

The objective of this newsletter is to spread information about various programmes undertaken by this KVK with a view to invite future collaborations from peer institutions, line departments and research organizations and most importantly the farmers to work together in the coming years for the betterment of the farming sector in the district.

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KVK's farmer producer company inaugurated

Periyar valley spices farmer producer company Ltd., promoted by the KVK with funding of NABARD commenced its formal operation on 13th August 2018 at Kothamangalam. Shri. Antony John, MLA inaugurated the company on that day. The company commenced an agro input shop during the occasion. Smt. Manju Siju, Municipal chairperson presided over. Dr. M. J. Chandregowda, Director, ATARI, Bengaluru distributed share certificates to the members. Dr. Shinoj Subramannian, Head, Shri. F. Pushparaj Anjelo, SMS and other KVK staff were present.



Dr. M. J. Chandregowda, Director, ATARI Issuing Share Certificates to FPO Member

New products launched



Microbes for sale at KVK

The KVK made available few microbial products useful in aquaculture through its sales counter. These products are manufactured and supplied regularly to KVK by Centre for aquatic animal health, Cochin University of Science and technology (CUSAT), Kochi. Detroidigest available in 100 ml bottles for Rs.150/- is effective in removing wastes by degrading it. It can prevent water contamination and consequently increase survival percentage. PS-1 (*Pseudomonas aeruginosa*) and PS-4 (*Pseudomonas aeruginosa*) are useful for preventing Vibriosis and Luminescent bacteria in brackish water and marine water respectively. Both are available in 100 ml bottles for Rs.150/-. Enterotrphotic available in 400 ml bottles for Rs.120/- can be used for controlling Vibrio in Shrimp/Prawn intestine. The Aquafeed supplement available in 400 ml bottles for Rs. 400/- improves digestion and assimilation of nutrients.

KVK Commenced it's first satellite custom hiring centre

KVK commenced an Agro machinery custom hiring centre at Kothamangalam operated by M/s Periyar valley spices farmer producer company Ltd., The company was earlier registered and being nurtured by KVK. Rotary tiller, Brush cutter, Earth auger, Mist blower, Motorized Sprayers, Knapsack sprayers, Hand operated sprayers etc., are made available in the centre. KVK trained women task force is operating the machines.



Team custom hiring centre

KVK participated in flood relief programmes.



Team visit to flood affected areas



Medicine distribution during flood relief
Animal health camp

Agriculture: Diagnostic visits to farmer's fields were organized /facilitated by KVK at various places in the district to advise immediate protective measures to the surviving crops. KVK's Horticulture expert Shri.Shoji Joy Edison participated in the diagnostic visits to Karumalloor, Keezhmad and Alangad along with a team of expert scientists from ICAR- Central Coastal Agricultural Research Institute, Goa and Chengamanadu, Alengad, Nedumbassery, Kalady, Kanjoor, Muvattupuzha, Vengoor with team of expert scientists from ICAR- Indian Institute of Spices Research, Kozhikkode. Subsequently, KVK experts and officials of Department of Agriculture made combined field visits in the flood affected areas and a post flood crop management advisory formulated. KVK collected soil samples from flood affected area, tested and post flood soil management strategy recommended.

Animal husbandry: Dr. K. Smita Sivadasan, SMS (Animal science) of the KVK participated in diagnostic visits along with a team of veterinarians from ICAR-Central Coastal Agricultural Research Institute (CCARI), North Goa during first week of September 2018 in the flood affected Aluva and Parur Taluks of Ernakulam district. Total of 15 health camps and 20 house visits were conducted by the team benefitting around 500

farmers. Severely affected animals were treated and medicines and supplements worth INR 1.00 lakhs sponsored by ICAR- CCARI distributed. The veterinary experts of State animal husbandry department wholeheartedly supported the activities. Dr.E.B. Chakurkar, Director, ICAR-CCARI made site visit on 5th September 2018 and assessed progress of health camps. A joint meeting of scientists of ICAR-CCARI, KVK experts and State animal husbandry department officials held at CMFRI, Kochi. Dr. Shinoj Subramannian, Head of KVK and Dr. Mary James, District animal husbandry officer were also present. Subsequently joint recommendations released.

Fisheries: Dr. P. A. Vikas, SMS (Fisheries) visited flood affected Pizhala, Kadamakkudy, Chelad, Vettampara, Kothamangalam, Keerampara, Manakkapady, Karumalloor, Pattanam, Cheriappilly, Paravur, Thathappilly, Anachal and Maanjali areas of the district and advised fish farmers on revival strategies.

A radio documentary on Ernakulam KVK's advisory on post flood management in Agriculture, Animal husbandry and Fisheries was made and broadcasted through Kisanvani programme of All India Radio 102.3 Kochi FM on 19th September 2018.

KVK promotes responsible fish vending



Visha vimukta malsya vipani functioning at Kalamukku fish harbour, Vypeen.

KVK is promoting Responsible fish vending that ensures fish delivered to consumers are safe-to-eat and the markets are clean and healthy. The KVK conducts regular training programmes to fish vendors on Safe-to-eat fish sourcing, cleaned fish supply, waste to manure conversion and hygienic vending. KVK extends technology backstopping to set up healthy and clean safe-to-eat fish markets. One of such markets named *Visha vimukta malsya vipani* is functioning at Kalamukku fish harbour, Vypeen. A training was conducted on 18th July 2018 for fish vendors sponsored by Fish Farmers Development Society (FFDA), Ernakulam. KVK also extended technical backstopping to the online fish vendors promoted in the NICRA project functioning at ICAR-CMFRI, Kochi.

KVK conducted entrepreneurship development programme on Pearlsport seed production

Subsequent to the success of producing Pearlsport seeds in a PPP mode in collaboration with farmers in KVK's Satellite Production Centres (SPCs) across the district, an Entrepreneurship development programme was conducted for 74 selected farmers to develop further SPCs in the district. The programme was held during 31st July to 2nd August 2018 at CMFRI, Kochi with funding support of National Fisheries Development Board (NFDB), Hyderabad. KVK's annual production of Pearl spot seed is 1.75 lakhs from 7 SPCs with each farmer fetching 3.0 lakhs annually.



Candidates and mentors of Entrepreneurship development programme

KVK webcasted Hon'ble Prime Minister's interaction with farmers and SHG members

The interactions of Hon'ble Prime Minister Shri. Narendra Modi with farmers and women SHG members of the country were webcasted by KVK. The farmer interaction held on 20th June 2018 was watched by 150 farmers at CMFRI, Kochi. During the occasion, an interface meeting of farmers with KVK experts was also organized. Seeds of vegetables and organic fertilisers distributed to the farmers. The interaction with women SHG members held on 12th July 2018 was watched by 50 SHG members at CMFRI, Kochi.



Live webcast of Prime Minister's interaction with women Self help group members at CMFRI, Kochi

KVK's satellite production centre (fish fingerlings) operational



A women farmer purchasing Jayanti rohu fish fingerlings from KVK's SPC.

KVK commenced supply of Jayanthi Rohu (improved variety of Rohu) fish fingerlings from one of its Satellite production centres (SPC) located near Kothamangalam, Ernakulam. The KVK sourced spawn of Jayanti rohu from ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar and reared for 2 months till fingerling stage in the SPCs. The partner farmers Mr. Luice G Kappan and Mr. T K Joseph were given training prior to that. These farmers could respectively earn Rs.60,000 and Rs.30,000 from this two month venture with the buy-back arrangement of KVK. A Jayanti rohu seed sales mela was also organized by KVK during 26th to 30th September 2018 and 15,000 fingerlings of 5-8 cm size could be sold.

KVK's technology backstopping to SHG's

Self help group sponsored by ATMA, Ernakulam

KVK is providing technology backstopping for cage fish farming by ATMA funded SHG Karshakasangham group, Maattupuram, Ernakulam. Fabrication and installation of cages, sourcing fish seeds, feed selection and farm management were under KVK's expert supervision. KVK's Farmgate marketing model for fish sale once again proven successful to this group also. The SHG group could harness a price of 35 percent in excess of that realised in conventional practice of selling to middlemen. Fish worth INR 2.0 lakhs could be sold. Inauguration of marketing facility was done by Karumaalloor Grama Panchayath President Shri.G.D. Raju on 17th June 2018 at Maattupuram. The Project Director (ATMA) Smt. Usha Devi, Assistant Director Shri. E.M Babitha, KVK Subject Matter Specialist Dr.P.A Vikas and other officials and public representatives were present. This group subsequently received best district level group award 2017-18 of ATMA (Ernakulam).



KVK supported ATMA group received district level best group award

Self help group sponsored by Palliyakkal Co-operative bank

KVK is extending technology backstopping on cage fish farming for fifteen Self Help groups sponsored by Palliyakkal Co-operative Bank, Ezhikkara. Two trainings were conducted for the members on 1st February 2018 and 4th April

2018. Subsequently KVK's aquaculture expert Dr. P.A. Vikas visited various farms of the group members and selected suitable sites for cage farming. Cage design was prepared by KVK, fabrication and installation got done through the Aqua task force of KVK- The Kadamakkudy Malsya Krishi Karma sena. Subsequently farming of Asian seabass and Pearlsport commenced in 15 cages. The KVK would be extending its technology of Farmgate markets for their fish marketing.

KVK organized orientation programme for women SHG members



Orientation programme for women SHG members in progress

The KVK jointly with Bank of India, Kerala zone conducted an interactive session on Schemes/ loans for women entrepreneurs at CMFRI, Kochi on 12th July 2018. Smt. Manisha Joby, Senior branch manager, Bank of India, Thrissur was the resource person. Shri. Maheshkumar V, Zonal Manager, KVK experts and Bank of India officials interacted and clarified queries of women SHG members. Government of India schemes like Mudra loan, Stand up India, Start up assistance, expansion of business etc. were discussed. KVK experts Smt. P Sreelatha, Shri. Shoji Joy Edison, Dr Smita Sivadasi and Dr. P.A Vikas participated.

Swachhta Hi Seva campaign conducted at KVK

Swachhta Hi Seva campaign to impart awareness about cleanliness and sanitation was conducted in a befitting manner at KVK during the period 15th September to 2nd October 2018 with the involvement of staff and partner farmers. Cleaning of flood affected farmer fields, animal sheds and de-silting of fish ponds were the outreach activities conducted. The flood-affected KVK campus was also cleaned. Awareness programmes were also organized to emphasize the importance of sanitation in rural households.



Awareness campaign for women to emphasize importance of sanitation

World environment day celebrated at KVK



Planting of mangroves on World environment day

During the occasion of World environment day on 5th June 2018, mangrove afforestation programme was conducted at KVK campus. All staff actively participated in the programme and one hundred mangrove saplings of *Bruguiera gymnorrhiza* and *Rhizophora apiculata* planted along the campus border facing sea side as a natural barrier from sea waves.

International Yoga day celebrated at KVK

KVK celebrated International yoga day at its campus on 21st June 2018. Upa yoga was taught by volunteers Dr. Radhika Jayakumar and Mr. Mayil Anand from Isha foundation, Coimbatore. All staff participated in the programme. Yoga video CDs and leaflets distributed to the participants.



Upa yoga session on International yoga day

Exhibition participated

KVK participated in an exhibition organized at CMFRI, Kochi as part of National conference on marine debris (CoMaD) during 11th to 12th April 2018. KVK exhibited various waste management models with the collaboration of Confederation of real estate developers association of India (CRE-DAI), Kochi. KVK's partner farmer Mr. Sajjan K. P, Keezhupilly House, Thuravur displayed low cost bio gas production unit.



KVK's stall in COMAD Exhibition

KVK participated in kisan kalyan karyashala



Kisan Kalyan Karyasala Celebration

The Kisan Kalyan Karyashala Workshop 2018-19 that was conducted throughout all the block panchayaths in India on 2nd May 2018 was held in Ernakulam district also. KVK participated in the block level farmer- scientist interaction on the theme *Achieving doubling of farmers income by 2022* at Alengad. Dr. P.A. Vikas delivered a lecture on Scope of brackishwater fin fish farming and Shri. Shoji Joy Edison delivered lecture on Scientific vegetable cultivation. Shri. F. Pushparaj Anjelo SMS, Agricultural Extension participated in the programme organised by Narakkal block and delivered a lecture on *Quality of agricultural inputs and its effects on farmers income*

KVK-ATMA collaboration

- ☛ Shri. Shoji Joy Edison, Subject Matter Specialist (Horticulture) Participated in the ATMA farm school programme at Alengad Krishi Bhavan on 26th June, 2018 and at Mookkannur Krishi Bhavan on 3rd July, 2018.
- ☛ Shri. Shoji Joy Edison and Dr. P. A Vikas, participated in the ATMA Kissan Goshti at Pallippuram Service Cooperative Bank on 9th July, 2018 and Shri. Shoji Joy Edison participated in the ATMA Annual management committee meeting held at collectorate on 9th August, 2018.

PROGRAMME FOR STUDENTS

Visit of students from Michigan state university



Michigan state university students at KVK

Six undergraduate students from Michigan State University visited KVK on 4th June 2018 to understand the KVK activities and rural life in Kerala. They were given detailed orientation on KVK activities, products and glimpses of rural life in Ernakulam.

Visit of students from University of Horticultural Sciences, Bagalkot

Fourteen Postgraduate Horticulture students from University of Horticultural Sciences, Bagalkot visited KVK on 2nd August, 2018. Shri. Shoji Joy Edison, SMS Horticulture interacted with students.

Interstate exposure visit of farmers from Tamilnadu

Farmers from Kanyakumari District of Tamil Nadu 180 in number sponsored by Department of Agriculture visited KVK as part of their interstate exposure visit on 12th August 2018. Interface on *Quality of organic farming inputs* lead by Shri. F. Pushparaj Anjelo, SMS Agricultural Extension.



Tamilnadu farmers on exposure visit

Programmes participated

- Shri. Shoji Joy Edison, Subject matter specialist (Horticulture) participated in the annual review meeting of Kerala state planning board project at CPCRI regional station, Kayamkulam on 13th April, 2018.
- Dr. P. A Vikas, Subject matter specialist (Fisheries) delivered a lecture on *fish feed preparation: quality considerations* in a training programme organized by ICAR-CIFT on 6th June 2018.
- Shri. F. Pushparaj Anjelo, Subject matter specialist (Agricultural Extension) delivered a lecture on "Organic farming inputs and its quality control" organized by RATTTC, Vytilla on 28.06.2018

- Shri. F. Pushparaj Anjelo, Shri. Shoji Joy Edison and Dr. P. A Vikas participated in the Periyar valley spices farmer producer companies meet at Kothamangalam on 13th June 2018.
- Dr. P. A Vikas, delivered a lecture on *Prospects and practice of brackish water Aquaculture in Ernakulam district* in the awareness programme organized by Fish farmers Development Agency (FFDA), Ernakulam on 23rd July 2018 at Paravur.
- Shri. Shoji Joy Edison and Dr. P.A Vikas participated in three days Training of Trainers (ToT) programme of Agricultural skill council of India (ASCI) held at GKVK Campus, UAS, Bengaluru during 24th to 26th September 2018.
- Smt. P. Sreeletha, Subject matter specialist (Home science) participated in the five days MANAGE sponsored training on Value addition of Coconut based products at ICAR-Central Plantation Crops Research Institute, Kasargod from 22nd April 2018 to 26th April 2018.
- Smt. P. Sreeletha Subject matter specialist (Home science) participated in the organizer's meeting in connection with Krishi Unnati mela at ICAR-Central Plantation Crops Research Institute, Kasargod on 21st April 2018.
- Smt. P. Sreeletha Subject matter specialist (Home science) delivered a lecture on Entrepreneurship opportunities for women self help groups in food processing during the Onam mela organized by District Kudumbashree mission at Marine drive, Kochi on 10th August 2018.
- Dr. K. Smita Sivadasan, Subject matter specialist (Animal husbandry) delivered a lecture on Entrepreneurship opportunities for women self help groups in Poultry farming during the Onam mela organized by District Kudumbashree mission at Marine drive, Kochi on 12th August 2018.

PUBLICATIONS

- Vikas P.A and Shinoj Subramannian. 2018. *Thilappiyakku Virus Bheeshani* (Malayalam). Karshakasree. 28(5). P:88.
- Vikas P.A. 2018. *Malsya karshakarkku van nashtam* (Malayalam). Karshakasree 24(9)P: 14
- Shoji Joy Edison and Shinoj Subramannian 2018. *Mazhamara nirmikkumbol shradhikkenda karyangal* (Malayalam). Karshakasree. 28(5) P: 88.

RADIO TALK

- Dr. K. Smita Sivadasan, Subject Matter Specialist (Animal husbandry) delivered a talk on *Post flood Animal care* in Kisan Vani, AIR, Kochi 102.3 FM on 5th September 2018.
- Dr. Shinoj Subramannian, Shri. Shoji Joy Edison, Dr. K. Smita Sivadasan and Dr. P.A Vikas participated in the radio documentary on *Ernakulam KVK's advisory on Post flood management in Agriculture, Animal husbandry and Fisheries* in Kisan Vani, AIR, Kochi 102.3 FM on 19th September 2018.

KVK's ongoing farmer participatory programmes

Sl.No.	Title	Partner farmers	Implementing expert
1	On farm testing of production of omega 3 fatty acid enriched poultry eggs using ICAR-CIFT technology	<ol style="list-style-type: none"> 1. Smt. Ambika Unni, Theruviparambil, Pizhala 2. Shri.Sunilkumar P.S, Pallath, Paliyamthuruth, Pizhala 3. Shri.Anilkumar T.P, Thondiyil, Paliyamthuruth, Pizhala 4. Smt. Mahila Mani Sudhakaran,Vattekattu, Paliyamthuruth,Pizhala 5. Smt. Sindhu Ajithkumar, Paliyamthuruthil, Paliyamthuruth, Pizhala 	Dr. K. Smita Sivadasan, Subject Matter Specialist (Animal Science)
2	Demonstration on Integrated management of non-fruiting in homestead grown mango trees	<ol style="list-style-type: none"> 1. Shri.Jacob Mathew, Ariat House, Keezhmad, Aluva 2. Shri. Subhash C G, Chakkavelil, Irumpanam. 3. Smt. Sheela M Varghese Marasseril, Udayamperoor 4.Shri.Antony marottipparambil, Brothers of St. Joseph's Cottolengo, Palluruthy 5. Shri. Balagangadharan, Karumathil, Desom, Aluva 	Shri. Shoji Joy Edison, Subject Matter Specialist (Horticulture)
3	On farm testing on growth performance of ICAR-CIFA Jayanti Rohu in Ernakulam district	Shri. Viju P.P. Parapilly House, Kizhakkumbagam, Parappuram.	Dr. P. A Vikas Subject Matter Specialist (Fisheries)
4	Demonstration of ICAR CIFT rapid detection kit for formaldehyde and ammonia adulteration in fish	Shri. Satheesh. S Brown, Kallikkatt, Karolil Road, Thammanam, Ernakulam	Smt. P. Sreeletha Subject Matter Specialist (Homescience)
5	Assessment of eco-friendly management of banana rhizome weevil	Shinto E. P, Erazhi House, Amalapuram, Aiyampuzha, Aiyampuzha P.O	Shri. F. Pushparaj Anjelo, Subject Matter Specialist (Agricultural Extension)
6	Demonstration of Mannuthy White crossbred variety piglets for fattening in Ernakulam District	<ol style="list-style-type: none"> 1. Shri. M.T Devassykutty, Manjaly, Moonamparambu, Ankamali 2. Shri. Paulose M.O, Manjaliveedu, Poothankutty, Tabore 3.Shri. Antu C. P. Chakkiath, Edalakkad, Tabore 4. Shri. K. D. Vijayan, Kallurumbil, Ezhattumughom P.O 	Dr. Smita Sivadasan, Subject Matter Specialist (Animal Science)
7	Satellite production centre (fish fingerlings)	<ol style="list-style-type: none"> 1. Shri. Luce G Kappan, Kappil, Vettampara, Kothamangalam 2. Shri. T K Joseph, Thakidiyil, Chelad P.O Kothamangalam 	Dr. P.A Vikas Subject Matter Specialist (Fisheries)

All India Network Project on Ornamental Fish Breeding and Culture Launched

In a major effort to develop the ornamental fish industry in the country, an all India network project on ornamental fish breeding and culture was commenced at ICAR-CMFRI. Dr J K Jena, Deputy Director General (Fisheries and Animal Sciences), ICAR formally launched the project in a function held at CMFRI on 28th July 2018. Central Institute of Freshwater Aquaculture (CIFA), Central Inland Fisheries Research Institute (CIFRI); National Bureau of Fish Genetic Resources (NBFGR); Central Institute of Brackishwater Aquaculture (CIBA); Central Institute of Fisheries Education (CIFE); and Directorate of Coldwater Fishery Research (DCFR) are partnering in the project. The project focuses on developing a value chain approach from seed collection, culture



Launch of ornamental fish culture & seed production project and export of various ornamental fishes. Establishment of regional hatchery units and satellite hatcheries under public-private partnership (PPP) mode is one of the expected outcomes of the project.

ICAR Director General Releases E-commerce Website and Mobile App Developed by CMFRI

The multivendor E-commerce website (www.marinefishsales.com) and associated android app (marinefishsales) developed by the ICAR-CMFRI was released by Dr. Trilochan Mohapatra, Director General, ICAR & Secretary DARE, on 7th August 2018 at New Delhi. The web application and mobile app developed under NICRA project is an adaptation strategy to improve income of fishermen and to help them cope up with adverse climatic events. The developed e-platform envisions multiple fishermen self-help groups (SHGs) as beneficiaries. Various fishermen SHGs can register as vendors based on their fish products and update their stock availability which would be displayed in the website and mobile app. Customers visiting the website or app



Release of E-commerce Website and Mobile App Developed by CMFRI

could place the order and subsequently the registered fisher/farmer shall be notified through email and SMS, upon which the quality products within the pre-assigned time frame shall be delivered, enabling direct product sale between customers and SHGs.

CMFRI Launches NFDB-funded Cage Farming Project in Kerala

The Central Marine Fisheries Research Institute (CMFRI) has kick-started a major project that would implement 500 cage fish farming units in Kerala. Supported by the National Fisheries Development Board (NFDB) in Hyderabad, the project envisions subsidy and technical support to the farmers to conduct cage fish farming across the coastal districts in the state. According to the programme, 40% of the total expense will be given as subsidy to the farmers who can conduct farming individually or in groups. Women and those from the SC/ST category will get 60% subsidy. The project was formally launched in Nettoor, Ernakulam district by

stocking 1500 and 500 each fingerling of seabass and pearl spot respectively into four cages and operated by SreeBadraKudumbasree unit comprising 10 members.



Fingerlings of seabass and pearl spot being stocked into the cages in Nettoor during the launch of CMFRI's project to set up 500 cage fish farming units in Kerala.



Satellite Production Centre of Panchagavya



Treatment to enhance flowering in mango progressing



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