



हर कदम, हर डगर
 किसानों का हमसफर
 भारतीय कृषि अनुसंधान परिषद

AgriSearch with a human touch

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Biocontrol agents replaces chemical sprays. An experience from KVKs demonstration field near Manjapra, Ernakulam



Grama panchayath president with a rich harvest from KVK's demonstration pokkali field near Kumbalangi, Ernakulam



Kadaknath: A poultry breed for safe meat and eggs, popularized by KVK in Ernakulam



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MANDATES

Director's Message

The overall mandate of 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 mandate 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 on the farmers fields
- Organizing need based training of 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.



KVK (Ernakulam) of Central Marine Fisheries Research Institute is acting as the knowledge and resource centre of all agricultural technologies in Ernakulam district of Kerala for the last 39 years. It has a dedicated team of experts from all fields of Agriculture including Animal husbandry and Fisheries. KVK is responsible for popularizing newer technologies among farmers, conducting farmer participatory on farm research programmes, supply of quality agro inputs for safe farming, conducting training programmes for farmers and officials and a number of other programmes for promotion of Agriculture.

There is an increasing concern among public on safety of food we eat, water we drink and air we breath. Root cause of most of the diseases lies on the food we eat. Safe farming, hygienic food processing and maintenance of sanitation are the solutions to ensure safety. The current thrust of Ernakulam KVK is to extend technology backstopping to safe farming for safe food production. In this context, KVK is popularizing domestic food production through family farming. KVK imparts necessary trainings and supply vegetable seeds, organic fertilizers, organic growth promoters, micronutrient mixes, mechanical insect traps etc. to facilitate and encourage safe farming. Similarly earnest efforts are being taken by the team KVK in reviving and popularising the naturally organic shrimp-paddy farming system-Pokkali by introducing cage fish culture, mechanization in land preparation, demonstrating farm gate markets and facilitating marketing of Pokkali rice and fish. KVK is in the process of registering and protecting the pokkali seed at Protection of Plant Varieties and Farmer's Rights Authority (PPV &FRA). KVK's programmes on popularization of Kadaknath: a medicinal poultry breed has been taken up by the Ernakulam district panchayath by implementing Karinkozhi gramam programme on pilot scale at Maneed grama panchayath. KVK has collaborations with Central Poultry Development Organization for supplying purebred birds in the district. Labour shortage is a great constraint in the farming sector in Kerala. Mechanization is the only alternative towards sustainable agriculture in Kerala and KVK is in the process of training women groups on operation and maintenance of upland machinery. The objective is to create labour groups who can undertake machine assisted farming operations on hourly rent basis. All these programmes are focussed to common objective of demonstrating safe food production towards achieving self sufficiency.

KVK has come up with the innovative concept of field training centres wherein farmer to farmer learning is encouraged. Two of such centres, one on mushroom farming and another on rainshelter farming are operational in the district. KVK is in the process of demonstrating a unique marketing mechanism called farm to flat corridor wherein safe commodities produced in the nearby farms reaches the door steps of city residents.

The objective of this newsletter is to spread information about the programmes of this KVK with a view to invite fruitful future collaborations from peer institutions, line departments, research organizations and most importantly, the farmers to work together in the coming years for the betterment of Agriculture and ensuring safety for the public.

With best wishes


(A.Gopalakrishnan)
Director

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With best compliments from....

Director
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KVK Ernakulam of CMFRI



Shri.T.K. Jose IAS, Chairman, Coconut Development Board inaugurating the workshop

Review Workshop of KVKs of Southern Zone Held at CMFRI HQ, Kochi

The Annual zonal review workshop of KVKs of zone VIII comprising of Tamil Nadu, Karnataka, Kerala, Goa, Lakshadweep and Puduchery held at CMFRI during 5th to 8th May 2014. The workshop was inaugurated

on 5th morning by Shri.T.K.Jose IAS, Chairman, Coconut development Board. The workshop reviewed the progress of work of 81 KVKs of the Zone for the year 2013-14. The review was conducted by an expert team comprising of scientists from Zonal project Directorate, Bengaluru and various ICAR institutes. Dr.V.Venkatasubramannian-Assistant Director General, ICAR, New Delhi, Dr.A.Gopalakrishnan, Director, CMFRI, Dr.Sreenath Dixit, Zonal Project Director, Bengaluru were present.

Help desk functional at KVK for registering crop varieties

Help desk functional at KVK to facilitate farmers, farmer communities, tribals etc. in registering their crop varieties. Under Protection of plant varieties and farmers rights Act 2001 at protection of plant varieties and farmers rights authority (PPV&FRA) under Ministry of Agriculture, Govt. of India. The contact number is: 9400257798. The applications recieved during 2013-14 are being processed.

KVK Launched Land Preparation Machinery for Pokkali Fields

KVK launched land preparation machine suitable for Pokkali wet lands near Edavanakkad, Ernakulam on 3rd June 2014. Shri. S.Sharma MLA inaugurated the launching ceremony. Dr.Shinoj Subramannian, Programme Coordinator/ Sr. Scientist introduced the machine to a group of pokkali farmers, padasekhara samiti office bearers and media.

This 5.5 hp machine having 60 kg weight requires fields dry to such an extent that a person can walk over the fields without



Shri. S. Sharma MLA inaugurating launching of pokkali mechanization

sinking his legs. Field capacity of the mini tiller in pokkali fields is 1.5 acre per day of 8 hrs working time whereas 15 labours are required to cover this much area in a day. The cost of operation of the machine is just INR 2,500 to cover 1.5 acres in comparison to INR 12,000 for manual labour. The machine requires 1 litre petrol to cover 1 hr. The machine is highly useful for sustainable pokkali farming as skilled labourers are not available in most of the places.

KVK Introduced Short Duration Tapioca Variety Vellayani Hraswa in Ernakulam District.



Shri. Saju Paul MLA inaugurating Vellayani Hraswa harvest mela

KVK introduced short duration tapioca variety Vellayani hraswa developed by Kerala Agricultural University in Ernakulam district. This variety was demonstrated in the fields of 10 selected farmers of Vengola and Mooknoor Panchayats. This variety matures in 5-6 months whereas varieties popular in the district require 10-12 months to mature. Vellayani hraswa has got good cooking quality and marketability. In order to popularize the variety, KVK conducted a harvest mela on 3rd June 2014 at Vengola. Short duration high yielding varieties helps farmers to get more income by growing more than a crop in an year. The demonstration resulted average yield of 7.2 MT/ha.

■ KVK Newsletter releasing ceremony



KVK's Newsletter 2013-14 Released

Shri. T.K. Jose IAS, Chairman, Coconut Development Board released the news letter (2013-14) of KVK on 5th May 2014. Dr. A.Gopalakrishnan, Director, CMFRI, Dr. V. Venkatasubramannian - Assistant Director General (Agricultural Extension), ICAR, New Delhi, Dr. Sreenath Dixit, Zonal Project Director, Bengaluru, Dr.Shinoj Subramannian, Programme coordinator of KVK (Ernakulam) were present during the occasion.

KVK - Kudumbashree Joint Initiative to Create Women Forces for Agro-Mechanization

Labour shortage is one of the main reasons preventing growth of agriculture sector in Kerala. Popularizing mechanization and developing skilled labour force to operate and maintain agro machinery is the only alternative. Skilled mechanization task forces need to be developed at

each panchayaths and more specifically in wards. KVK has joined hands with District Kudumbashree Mission and availed financial assistance from Mahila Kisan Sashaktikaran Pariyojana towards developing mechanized women task forces among Kudumbashree members. KVK conducted a series of 3 day field training to selected kudumbashree members from all blocks in the district wherein 150 women got trained. Intensive training was given on operation and maintenance of mini tiller, weed cutter, earth auger, motorized sprayers, motorized duster and manually operated sprayers. The programmes were held at all 15 blocks of the district during August - October 2014.



■ Capacity building of women groups towards mechanized farming in the district



■ Inauguration of the harvest mela by Shri. Saju Paul MLA

Self Employment in Fresh Water Fish Farming with KVK's Technology Backstopping

Samanwaya men SHG from Paniyely, Ernakulam, a group of eleven active men successfully done fresh water fish farming near Paniyely under the technical guidance of KVK. The group in June 2013 undergone an Entrepreneurship development programme (EDP) of KVK and subsequently initiated the fish farming in a 1.0 acre abandoned granite quarry. Catla, Rohu, Mrigal, Pangasius,

and Grass carp were the fish species grown. 4000 number of fingerlings were released during July 2013. Systematic and scientific farming right from seed selection nursery rearing, feeding, disease management etc., resulted size range from 0.6 Kg to 3.9 Kg during a short period of nine months.

The harvest festival was inaugurated by Perumbavoor MLA Shri.Saju Paul on 17th April 2014 in presence of Vengoor Panchayath President, Block Panchayath president and ward members. Dr.Vikas P.A. Subject Matter Specialist (Fisheries) of the KVK delivered key note address. Freshly caught live fish sold locally @175/Kg.



CTCRI's Organic Pesticide-Nanma: A Boon For Banana Farmers

NANMA-Organic pesticide developed by Central Tuber Crops Research Institute, Thiruvananthapuram and popularized by KVK in Ernakulam district is a boon for banana farmers. The formulation made from cassava leaf extract is effective in controlling banana pseudostem weevil, a major pest seen in the district. Several field trails conducted by the KVK proved that it is effective if sprayed as a precautionary measure. Chemical load on banana fruits would come down with widespread use of NANMA. KVK is in the process of making this product available for supply through its sales outlet.



■ Dr. A. Gopalakrishnan, Director CMFRI felicitating farmer innovator

Farmer Innovator Felicitated

Director, Central Marine Fisheries Research Institute and chairman of KVK Dr. A. Gopalakrishnan felicitated farmer innovator Shri. Sachidanandan Aduvassery on 5th May 2014. Shri. Sachidanandan was earlier selected by KVK as the best farmer innovator from Ernakulam district. His invention of Nutmeg decorticating machine was the best selected one. Interestingly, he has more than 35 innovations to his credit.

Farm Gate Markets Demonstrated in Pokkali Fields

KVK demonstrated farm gate markets for live caught Karimeen (Pearlspot) and Thirutha (Mullet) grown organically in Pokkali fields at Kappu padasekharam near Nayarambalam and Anjilithara padasekharam near Kumbhalangi on 19th April 2014. The demonstration markets were inaugurated respectively by Vypeen MLA Shri. S. Sharma and Kumbhalangi grama panchayath president Smt. Susan Joseph. Dr. P.U. Zacharia, Principal Scientist, CMFRI, Dr. Shinoj Subramannian, Programme Coordinator of KVK and Dr. Vikas P.A. Subject matter specialist (Fisheries) were present. The field markets attracted hundreds of fish lovers from Kochi and nearby districts making the concept promising.

The objective of the programme conducted as part of the National Initiative on Climate Resilient Agriculture (NICRA) project, was to popularize the superior quality and taste of the fish harvested from Pokkali fields and to create a brand name for it. The paddy straw of the previous crop, the peaty soil and the saline water in the pokkali eco-system together imparts a characteristic taste to the fish from pokkali fields. This fish is currently being mixed up in the market with low quality fish from elsewhere. The brand name and farm gate market for the pokkali fish is to ensure safe-to eat product for the consumers at a reasonable price while enhancing the income from pokkali farming towards its sustainability.

■ Shri. S. Sharma MLA inaugurating the farm gate market at Kappu pokkali fields, Nayarambalam





Scientist probationers interacting with Chairman and senior officials of Coconut Development Board at Kochi.



Scientist probationers on board FRV silver pompano research vessel of CMFRI

KVK Conducted 21 Days Field Experience Training For Scientist Probationers

Twenty one days training programme held for Agricultural Scientists recently recruited to Indian Council of Agricultural Research (ICAR) who were undergoing foundation course at National Academy of Agricultural Research Management, Hyderabad. The field experience training held during 19th August to 8th September 2014 was formally

inaugurated by Dr. Shinoj Subramanian, Programme Coordinator/ Sr. Scientist. During the course of training, trainees conducted survey of Kumbhalanghi village near Ernakulam and interacted with farmers, officials, public representatives and key informants for few days and subsequently presented an agricultural development action plan for the village in an interface held on 28-08-2014. Subsequently they have visited fish landing centres, markets, industries and export houses to understand the value chain. Visits and interactions with coconut development board officials, farmer producer companies, research stations, cage culture and aquaponics sites, marine data collection in CMFRI research vessel were also part of the programme. Subsequently on 8th September 2014, a seminar was conducted at CMFRI to share their experiences with scientific community. Dr. Narayanakumar, Director i/c chaired the session.

KVK Collaborates with CPDO for Popularizing Kadaknath Poultry in Ernakulam District



KVK collaborated with Central Poultry Development Organization (CPDO), Mumbai for popularizing Kadaknath breed poultry in Ernakulam district. CPDO, organization under Ministry of Agriculture, Govt. of India is the agency responsible for popularizing this breed in the country. Purebred hatching eggs supplied by CPDO to KVK hatched out in satellite units would be supplied to the farmers at nominal price after ensuring vaccination and other precautions. This arrangement would ensure supply of pure bred and quality birds in the district. Kadaknath is an indigenous breed from Madhya Pradesh known for medicinal properties in its meat and egg.

KVK PRODUCTS

KVK is manufacturing and supplying few products useful for organic/safe farming. The products are available for sale at the outlet located in the ground floor of Central Marine Fisheries Research Institute

(CMFRI) situated by the side of Goshree road near high court junction in Kochi. The products can be purchased on all working days from 10:00 AM to 4:00 PM. Bulk orders may require prior approval.



■ Newly launched products: Tobacco decoction kit, Banana topup and Mango fruit fly trap

PRICE LIST

No.	Item	Description	Qty	Price (₹)*
1	Aminoplus	Fish amino acid prepared from oil sardine. It acts as growth enhancer, insect pest repellent and as an organic hormone.	200 ml 1 Ltr	40/- 180/-
2	Organo excel	Mixture of ground nut cake and neem cake prepared by KVK at source located in various villages of Tamil Nadu.	1 Kg.	60/-
3	Panchagavya	Prepared only from Gavyas of cows grazed in forest lands in Western Ghat valley bordering Ernakulam district. It acts as growth enhancer, insect pest repellent and as an organic hormone.	200 ml 1 Ltr	40/- 180/-
4	Neem de Pest	Ready to use Neem oil paste an ICAR-IIHR technology Diluted solution can be sprayed directly on crops for insect control.	250 gm 500 gm	60/- 110/-
5	Neem oil	Oil prepared from the neem kernels collected from villages in Tamil nadu	100 ml 1 Ltr	30/- 220/-
6	Neem cake	Cake left out during neem oil extraction	1 Kg	30/-
7	Tobacco decoction kit	Ready to mix kit containing chopped tobacco and detergent to prepare tobacco decoction.	1 No	40/-
8	Fruit fly trap	Simple trap for fruit flies in vegetables.	1 No	30/-
9	Pheromone trap (Vegetables)	Trap fitted with lure to attract and kill vegetable fruit flies.	1 No	140/-
10	Pheromone trap (Mango)	Trap fitted with lure to attract and kill mango fruit flies.	1 No	140/-
11	Vegetable Topup	Foliar spray micronutrient mix for vegetables, an ICAR-IIHR technology.	500 gm	75/-
12	Banana Topup	Foliar spray micronutrient mix for banana, an ICAR-IIHR technology.	500 gm	75/-
13	Vegetable seeds	Seeds of common vegetables, onion, palak and maize		10/- to 25/-

* Competent authority may change price from time to time.

SUCCESS STORY



■ Mr. Joseph Thakidiyil supplying carp seeds from the satellite seed production unit.

KVK's Satellite Carp Seed Production Unit Augmented Income of Partner Farmer

Mr. Joseph Thakidiyil is getting an income of INR 1.5 lakhs per year from fish seed production from the satellite carp seed production unit of KVK located in his farm at Kothamangalam. The unit employs Portable carp hatchery (PCH) technology developed by Central Institute for Freshwater Aquaculture (CIFA). *Catla catla*, *Labeo rohita* and *Cyprinus carpio* were bred in the unit. The fish seeds were reared for two months in nursery ponds using formulated and farm made feeds and subsequently being supplied to the farmers.



KVK Participated in Exhibition

KVK participated in a three days exhibition organized by MES Engineering College at its campus located near Kunnukara, Ernakulam from 17th to 19th September 2014. The programme was organized as part of the golden jubilee celebrations of MES.

Programme for Students



■ Students undergoing training on fish cage culture at KVK

KVK Conducted one day training on Aquaculture practices and prospects for VHSE-Aquaculture students from Govt. Fisheries Vocational higher Secondary School, Kaipamangalam, Thrissur on 24th September 2014. Hands on training on cage fish culture and nursery rearing of Mulletts provided to the students.

KVK'S FIELD TRAINING CENTRES OPERATIONAL



■ KVK's farmer trainer Shri.A.R.Sreekumar in the field training centre

Mushroom

KVK has set up a field mushroom training centre at Koovappady near Perumbavoor. Shri. A.R Sreekumar, a successful trainee of KVK who is currently into mushroom farming is the master trainer. The centre equipped with spawn production facility also produces mushroom round the year. Spawn would be provided to the trainees towards end of each training to ensure continued learning at their home. Marketing lessons are also part of the training.

Rain shelter farming

KVK's field training centre for rainshelter farming commenced in the field of Shri.Shabi Mohan near Elamakkara, Kochi. The centre is equipped with a 40 sq.metre rainshelter wherein vegetables are grown in bags. The unit is also equipped with automatic fertigation system. It is envisaged to train urban dwellers on round the year production of vegetables for home consumption.



■ KVK's farmer trainer Shri. Shabi Mohan in the field training center

Sponsored Training Offers

**Organisations can sponsor
candidates in batches only**

Cage technician course

Cage culture of fish is a promising enterprise wherein trained manpower is short for cage construction, installation and its maintenance. Constant seed and feed supply is also a constraint in this field. In order to tackle this, KVK offer Cage technician course for enterprising youngsters. This 4 day long programme cost INR 20,000/- for a batch of 10 candidates. Refreshments and lunch included. Successful trainees can commence turnkey basis installation of small cages and its maintenance with continued free technical backstopping from KVK.

Operation and maintenance of upland agro machinery

Labour shortage is one of the main reasons preventing growth of agriculture sector in Kerala. Popularizing mechanization and developing skilled labour force to operate and maintain agro machinery is the only alternative. This KVK has devised a package for 4 days field training programme on *Operation and maintenance of upland agro machinery* for farmers/youngsters. The machines covered are Mini tiller, Brush cutter, Earth auger, Mister blower, Power duster and 3 types of hand operated sprayers. The training would be conducted in any field selected by the sponsor within Ernakulam district. Cost of the package is INR 20,000/- for a batch of 10 candidates. Refreshments and lunch included.

POPULAR ARTICLES

Vikas P. A & F. Pushparaj Anjelo. 2014. *Kulungalile Alankara Malsyakrishi* (Malayalam). Kerala Karshakan, June 2014.

RADIO PROGRAMMES

A talk of Dr. Vikas, P.A. SMS (Fisheries) on *Pokkali Paddy - Fish integrated farming* was broadcasted on 11th April 2014 by AIR Kochi.

A talk of Shri. Shoji Joy Edison, SMS (Horticulture) on *Onion farming* was broadcasted on 7th April 2014 by AIR Kochi.

A talk of Dr. Shinoj subramannian, Programme Coordinator on *Annual review workshop of south Indian KVKs* broadcasted on 19th May 2014 by AIR Kochi.

A talk of Dr. Vikas P.A, SMS (Fisheries) on Pearl Spot farming was broadcasted on 29th September 2014 by AIR Kochi.

PROGRAMME PARTICIPATION

Dr. Shinoj Subramannian, Smt. P. Sreeletha, Shri. F. Pushparaj Anjelo, Shri. Shoji Joy Edison, Dr. Vijendra Kumar Meena and, Dr. Vikas P.A participated in the Network workshop of KVKs of Kerala on *Family farming* held during 26th -28th May 2014 at Wayanad.

Shri. F. Pushparaj Anjelo attended 3 days HRD training programme on *Technology management by KVK professionals* held during 9th to 11th June 2014 at National Academy of Agricultural Research Management, Hyderabad.

Dr. Shinoj Subramannian, Shri. Shoji Joy Edison and Shri. F. Pushparaj Anjelo Participated in the workshop held on 20th June, 2014 organized by Kerala Agricultural University, Thrissur on *Collaborative programmes between KVK's in Kerala*.

Dr. Vikas P.A. participated in three days *exposure visit* to Central Institute for Brackishwater Aquaculture (CIBA), Chennai during 3rd to 5th July 2014.

Dr. Vikas P.A. Participated *National Fish Farmers day celebrations* on 10th July 2014 organized by Cochin University of Science and Technology (CUSAT) and delivered a lecture on *Indian Aquaculture: Prospects and practices*.

KVK's ONGOING FARMER PARTICIPATORY PROGRAMMES

Sl.No.	Programme	Location	Partner Farmers	Contact
1	Demonstrating the seed production technology of IISR ginger variety Varadha	Vengoor Kalady Mookkanoor	Mini Vijayan Varghese V.P. Augustin. C. Thaiyan	9961803136 9947844782 9400400522
2	Demonstration of SRI method of paddy cultivation	Vengola	M.P. Kariyachen K.K. Suresh K.N. Ramakrishnan	9947355054 9447063304 8547124652
3	Demonstrating the potential of <i>Beauveria bassiana</i> and pseudomonas in controlling pest and diseases in cucurbits	Manjapra	M.P. Vargshese M.P. Cheriyan A.P. Varkey	9605855421 9947355054 9947994681
4	Demonstration of Paddy variety Njavara	Manjapra Karumaloor Ayroor	P. Varghese K.V. Sudarsan Varghese Mathew	9605855421 9847533670 9447158092
5	Culture of indigenous fish Varal (<i>Channa striatus</i>) in fresh water systems associated with paddy fields	Kothamangalam Ambalamedu	Sojan V. Rahul S.	9946456716 8129214004
6	High density Cage culture of fin fishes in fresh water bodies	Karukutty Puthenkurishu	Fr. Jacob Mulavarikkal Sreekumar C. Lal	9447662600 9961730550
7	Integrated Crop management in paddy	Kodanad	K.P. Gopan	9446139062
8	High density planting in banana	Chendamangalam	P.V. Shivan	9495842482
9	Testing the suitability of Trichoderma and Pseudomonas in controlling fruit rot disease in nutmeg	Mookanoor	P.M. Jomon G.K. Jose M.A. Poulouse	9846204565 9946763085 9847391397
10	Performance comparison of high yielding papaya varieties	Mookkanoor Karumaloor	K.V. Sudarsan Sanu Thomas	9847533670 9447913173
11	Testing the suitability of Silver Pompano (<i>Trachinotus blochii</i>) culture in brackish water	Kadamakkudy	Murali P.R.	9496975998
12	Comparison of low weight power tillers and garden tractors for land preparation in Pokkali paddy fields	Edavanakkad	Pushpangathan	9497457183
13	Farmers field school on quality vegetable seedling production	Palluruthy	Cottolenko brothers	8281212696
14	Demonstration of Integrated Farming System	Kumbalangi Puthuvyppu Kunnukara	C.V. Shibu V.S. Rajesh T.S. Joseph	9496090363 9961800144 9745759764
15	Entrepreneurship development through fishery value addition	Narakkal	Renjini Sivadasan	9605602550
16	Comparison of the performance of growbags and flat bed planting bags in the yield of vegetables	Padivattom Ochenthuruthu Puthuvaippu	Jayakumar Athul P.B Mary Jacob	9995642852 9447461566 9249394356
17	Demonstration of Integrated Pest Disease and Nutrient Management in nutmeg	Mattoor Piraroor (Kalady)	K.C. Babu Jijy George George K.S. Ittyera K.P.	9947855101 9495566284 9497202296 9037394912
18	Demonstration of open precision farming in vegetables	Kodanad Panamkuzhi	P.V. Zacharia Anto paul	9847314798 9447421616
19	Mushroom field training unit	Koovappady	A.R. Sreekumar	8089237005
20	Rainshelter farming field training unit	Elamakkara	Shabi Mohan	9744690999
21	Satelite carp seed production unit	Kothamangalam	Joseph Thakidiyil	9446687191
22	Satelite rabbit kit production unit	Kalamassery Piravom	Sunny Peter Surendran	9809999941 9388067277

**HIGHLIGHTS OF KVK-FARMER
PARTNERSHIP PROGRAMMES**



Advisory services at farmers doorstep-KVK experts with progressive farmer at Mudakkuzha, Ernakulam



Demonstration of Varal (*Channa striatus*) farming at Kothamangalam, Ernakulam



Mat nursery preparation- Demonstration of integrated crop management in paddy at Kodanadu, Ernakulam



KVK's satellite potting mixture production unit near Cherthala

Career Advancement



Smt. P. Sreeletha,

Assistant Chief technical Officer (SMS Home Science) promoted as Chief Technical Officer with effect from 03.02.13.



Shri. B. Suresh Kumar,

Sr. Technical Officer (Farm manager) promoted as Assistant Chief Technical Officer with effect from 23.11.12.



Sl. No	Name	Designation	Expertise	Contact No.
1.	Dr. Shinoj Subramannian	Programme Coordinator/ Sr. Scientist	Agro processing and mechanization	9496303457
2.	Smt. P. Sreeletha	Subject Matter Specialist	Food industry Entrepreneurship development	9447866771
3.	Shri. F. Pushparaj Anjelo	Subject Matter Specialist	Creating farmer's organisations and Agri Marketing	9400257798
4.	Shri. Shoji Joy Edison	Subject Matter Specialist	Family farming and Nutrient Management	9746469404
5.	Dr. Vijendra Kumar Meena	Subject Matter Specialist	Agronomy	9746527413
6.	Dr. K. Smita Sivadasan	Subject Matter Specialist	Animal Husbandry	9446120244
7.	Dr. Vikas P.A	Subject Matter Specialist	Fisheries	9447993980
8.	Smt. Dipti. N.V	Programme Assistant	Good agricultural practices (GAP)	9895523463
9.	Shri. Manu.V.K	Programme Assistant	Information commu- nication technology in agriculture	9446060857
10.	Shri. B. Suresh Kumar	Farm Manager	General Agriculture	9946353204
11.	Shri. D. Augustus Julin Raj	Administrative Assistant	Office matters and KVK Products Marketing	9447200573
12.	Smt. Rincy. K.R.	Jr. Stenographer	Office matters	9496039879
13.	Shri. M.K. Anil Kumar	Skilled Supporting staff	-	-

CMFRI NEWS



Dr. Srinivasa Gopal, Director, CIFT
inaugurating shellcon 2014

Shellfish food festival conducted

The Shellfish food festival -ShellCon 2014 was conducted at Central Marine Fisheries Research Institute (CMFRI), Kochi during 22nd to 23rd March, 2014.

The objective of the programme funded by national agricultural innovation project was to build awareness among the general public on shellfish as a highly nutritious food and also to popularize its health benefits. An interface of concerned research and development professionals from both government and private sector was also part of the event.

Estimates on Marine Fish Landings 2013 Released

Dr. A. Gopalakrishnan, Director of CMFRI, officially released the marine fish landings report of 2013 in



■ Release of fish landing data at CMFRI

a press conference at CMFRI, Kochi on 10th June 2014.

The overall fish landings from Indian coast touched 3.78 million tonnes in 2013, a dip of four per cent compared to 2012, with Gujarat, Tamil Nadu and Kerala charting the maximum. Gujarat, the highest contributor, accounted for 7.17 lakh tonnes, followed by Tamil Nadu 6.88 lakh tonnes and Kerala 6.71 lakh tonnes.

Cobia harvested from Sea cages

Cobia Fishermen Welfare Association, a self-help group from Rameswaram is the first SHG to take up sea cage farming under the technical support of CMFRI. They have harvested nine tonnes of fish from ten cages. The farm gate price was Rs. 270 / kg. This can be considered as a major milestone in the development of sea cage farming in the country.



■ Cobia harvest festival held at MRC of CMFRI, Mandapam

CMFRI signs MoU with NIO for collaborative research programme

A Memorandum of Understanding (MoU) was signed between Dr. A. Gopalakrishnan, Director, CMFRI, Kochi and Dr. S.W. Naqvi, Director, National Institute of Oceanography (NIO), Goa for undertaking

collaborative research programme on “Mud bank”. Mudbanks are calm areas when rest of the coastal waters is turbulent. Were fishermen can operate country crafts in these calm waters. To understand the science behind the formation of mud banks and how it affects the resources, a multidisciplinary approach is planned by both institutes. The CMFRI, Research Vessel Silver Pompano will be used for the detailed studies of mud banks of Alapuzha in central Kerala.



■ Signing of MOU by Dr. A. Gopalakrishnan, Director, CMFRI and Dr. S.W. Naqvi, Director, NIO

First successful export of live oyster to international market

Relish Foods, Valanjavazhi, Alapuzha started commercial live oyster export to Hong Kong market with backup of CMFRI. Live oysters to the tune of 3,500 oysters/ week with an average price of US \$ 10 / dozen oysters were exported after depuration.



■ Live oyster getting ready for export to US

KVK In News

THE TIMES OF INDIA, KOCHI
TUESDAY, JUNE 3, 2014

DIGEST

Mini-tillering for pokkali land

The Krishi Vigyan Kendra (Ernakulam) of Central Marine Fisheries Research Institute has developed mini-

method for land in pokkali new initiative...
...at Illathu-pokkali pada...
...June 3 at...
...Perma, MLA...
...inaugurating the

AGRI-BUSINESS

Abandoned quarries turn fish breeding ponds in Kerala

Abandoned quarries in Kerala are being turned into fish breeding ponds. The Krishi Vigyan Kendra (Ernakulam) of Central Marine Fisheries Research Institute has developed a method for land in pokkali...

Farm Gate Market for Organically-grown Fish Held

The demo was organised for selling 'karimera' and 'virutha' grown in Pokkali fields



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.

Pokkali farms in west Kochi take the mechanized route



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.

കൃഷിയിടങ്ങളിൽ യന്ത്രങ്ങൾ പ്രവർത്തിപ്പിക്കാൻ ഇനി കുടുംബശ്രീ അംഗങ്ങളും

കൃഷിയിടങ്ങളിൽ യന്ത്രങ്ങൾ പ്രവർത്തിപ്പിക്കാൻ ഇനി കുടുംബശ്രീ അംഗങ്ങളും. കൃഷിയിടങ്ങളിൽ യന്ത്രങ്ങൾ പ്രവർത്തിപ്പിക്കാൻ ഇനി കുടുംബശ്രീ അംഗങ്ങളും.

പൊക്കാളി പാടങ്ങളിൽ പ്രവർത്തിപ്പിക്കാവുന്ന ഉഴവുയന്ത്രം അവതരിപ്പിച്ചു



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.

BusinessLine

AGRI-BUSINESS
Efforts on to revive Kerala's saline water rice farming

Efforts on to revive Kerala's saline water rice farming. The Krishi Vigyan Kendra (Ernakulam) of Central Marine Fisheries Research Institute has developed a method for land in pokkali...

BusinessLine

THURSDAY, JUNE 5, 2014
Mechanisation to revive saline farming Pokkali

Mechanisation to revive saline farming Pokkali. Efforts to revive Kerala's Pokkali farming seems to be gaining ground with the launch of machines to prepare the land.



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.

'വെള്ളായണി ഹ്രസ്വ' രെച്ചിനി വിളവെടുത്തു



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.

നാടൻ വിത്തിനങ്ങൾ രെച്ചിൾഭേഷൻ വഴി സംരക്ഷിക്കുന്നു

നാടൻ വിത്തിനങ്ങൾ രെച്ചിൾഭേഷൻ വഴി സംരക്ഷിക്കുന്നു. നാടൻ വിത്തിനങ്ങൾ രെച്ചിൾഭേഷൻ വഴി സംരക്ഷിക്കുന്നു.

THE HINDU - WEDNESDAY, KOCHI

JUNE 4, 2014

Short duration tapioca harvested

Staff Reporter

KOCHI: A harvest mela of the short duration tapioca variety 'Vellayani Hraswa' was conducted by Krishi Vigyan Kendra (Ernakulam) of CMFRI at Vengola in the district.

The short duration high yielding variety helps farmers to get more income through efficient utilisation of the farmland by growing more than one crop in a year, said Saju Paul, Perumbavoor MLA, who inaugurated the programme.

The Vellayani Hraswa variety was developed by the College of Agriculture, Vellayani, said a press release.

നഗരത്തിൽ സവാളയും വിളയും



Dr. Saju Paul inaugurating the farm gate market organised by Krishi Vigyan Kendra, Ernakulam.



Women group undergoing KVK's Agro-Machinery training Near North Paravur, Emakulam

कृषि विज्ञान केंद्र (एरणाकुलम)
KRISHI VIGYAN KENDRA (ERNAKULAM)
 കൃഷിവിജ്ഞാന കേന്ദ്രം (എറണാകുളം)
OPERATION AND MAINTANANCE OF WOMEN FRIENDLY AGRO MACHINERY
 CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
 (Indian Council of Agricultural Research)
 NARAKKAL P.O. - 682 505

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 Optimal nutrient content for fast growth and survival
 Imparts better stress and pathogen resistance

NEEM CAKE Plus

Formulated feed possesses good water stability
 Results healthier and stronger Pearl spot
 Economical FCR reduces production cost
 Optimal nutrient content for fast growth and survival
 Imparts better stress and pathogen resistance

Pearl Plus
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DEVELOPED UNDER NATIONAL INITIATIVE CLIMATE RESILIENT AGRICULTURE (NICRA)

Pearl plus feed contains optimum nutrients required for Pearl spot

Formulated feed possesses good water stability
 Results healthier and stronger Pearl spot
 Economical FCR reduces production cost
 Optimal nutrient content for fast growth and survival
 Imparts better stress and pathogen resistance

MARINE BIOTECHNOLOGY DIVISION (MBTD)
 Central Marine Fisheries Research Institute, Kottayam



Vegetable Seeds

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