



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

*AgriSearch with a human touch*

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ICAR - KVK ERNAKULAM

# Newsletter

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Inauguration of Curry leaf kit distribution to school children by Honorable Justice Shri P. Sathasivam, Governor of Kerala



Dr.A. Gopalakrishnan,  
Director, CMFRI  
inaugurating Farm  
shoppe



**ICAR-KRISHI VIGYAN KENDRA (ERNAKULAM)**

ICAR-Central Marine Fisheries Research Institute  
Dept. of Agricultural Research and Education, Ministry of Agriculture and Farmers Welfare Govt. of India  
Aarattuvazhy beach, Narakkal Post, Kochi, Kerala-682 505



## MANDATES

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 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 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



Krishi Vigyan Kendras (KVKs) are district level units of Indian council of agricultural research (ICAR) that are functioning with major objective of disseminating latest technologies among farmers towards agricultural development. The Ernakulam KVK of ICAR-Central marine fisheries research institute (CMFRI) has developed a strong bondage with farmers in the district through a slew of activities and a series of effective measures to keep the farming on right track. Ensuring local production of safe food by promoting farming in every homestead is the major focus of this KVK. We supply a wide variety of agro inputs including organic manures and seeds through KVK salescounter located at CMFRI, Kochi besides providing training and technology backstopping services. The satellite production centres of KVK established in public-private partnership with farmers produce quality planting materials, seeds and other agro inputs for supplying through sales counter while acting as source of livelihood for the partner farmers. The Farm shoppe of KVK Ernakulam functioning at CMFRI, Kochi is a model facility for marketing farmer's produce directly to consumers. This arrangement enhances farmer's income while ensuring safe food to consumers and is in line with Doubling farmer's income programme of Government of India. This KVK has conducted two skill training programmes under the unique initiative Pradhan Mantri Kaushal Vikas Yojana (PMKVY) during this year. We also conducted various programmes for developing entrepreneurship among women and youth in the field of Agriculture and allied sectors. Dissemination of information has it's own significance in reaching out the targeted audience timely. This edition of newsletter provides a view of various programmes undertaken by KVK Ernakulam with a view to invite fruitful future collaborations from peer institutions, line departments and research organizations and most importantly, the farmers to work together in the coming years for betterment of farming sector and ensuring safe food to all of us.

**A. Gopalakrishnan**  
Director

### PUBLISHED BY

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### COMPILED BY

Dr. Shinoj Subramannian  
Dr. Vikas P.A | F. Pushparaj Anjelo  
Dr. K. Smita Sivadasan  
Shoji Joy Edison | P. Sreeletha  
ICAR-KVK Ernakulam



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**WITH BEST COMPLIMENTS FROM...**

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**Dr. A. Gopalakrishnan**  
Director  
ICAR- CMFRI

**Dr. Shinoj Subramannian**  
Senior Scientist & Head  
ICAR-KVK Ernakulam of CMFRI





## FARM SHOPPE TO MARKET FARMER'S PRODUCE

**KVK** commenced a new facility to market packed and branded produce of farmers at ICAR-CMFRI, Kochi as part of Doubling farmer's income programme of Government of India. Farmers marketing their fresh and hygienic produce directly to the consumers can enhance their income while supplying safe and healthy produce. This model outlet is also acting as practical training facility for farmers on storage, packing, labeling, branding and marketing. The Shoppe was inaugurated by Dr.A. Gopalakrishnan, Director, CMFRI on 4th January 2019.



Dr.A. Gopalakrishnan, Director, CMFRI inaugurating Farm shoppe

## PROGRAMMES FOR LAKSHADWEEP

### ORIENTATION PROGRAMME FOR KVK LAKSHADWEEP STAFF

**S**ix days orientation programme for staff of ICAR-Krishi Vigyan Kendra (Lakshadweep) was conducted during 26th November 2018 to 1st December 2018 at CMFRI, Kochi. Dr.A Gopalakrishnan, Director, CMFRI and Dr.Chandre Gowda, Director, ATARI, Bengaluru interacted with the participants.



Participants of Orientation Training Programme with organizers

## BRANDING AND MARKETING OF IDUKKI FARMER'S PRODUCE

**T**he KVK in collaboration with Idukki KVK and Department of Agriculture, Idukki has branded and marketed speciality produce of Idukki farmers viz., Garlic, Potato and Jaggery. A meeting of local farmers conducted at Vattavada, Idukki on 17th January 2019 and at Kanthalloor, Idukki on 18th January 2019. The produce is regularly being supplied through Farm shoppe in branded packages. This arrangement could create a customer base at Kochi for Idukki farmers products.



Idukki Garlic and Potato ready for sale at Farmshoppe

### MANURE FROM FISH WASTE: TRAINING CONDUCTED FOR LAKSHADWEEP WOMEN

**F**ish waste disposal is an issue in Lakshadweep, whereas there is lack of quality organic manures for developing horticulture also in the island. In this context, the KVK Ernakulam in association with ICAR-KVK Lakshadweep conducted training for Lakshadweep women on Organic manure production from fish waste on 9th February 2019 at Kavaratti.



Capacity building programme for women of lakshadweep

**SALES MELAS**

**KVK** conducted seedling sales mela on 30th October 2018 and seedlings of Vegetables, Papaya, Curry leaf, Banana and Passion fruit were distributed to the farmers. Poultry sales melas were also conducted on 28th November 2018 and 4th December 2018 at CMFRI and authentic Kadaknath poultry chicks distributed.



Vegetable seedling sales melas



Kadaknath poultry sales mela



**PROGRAMME FOR STUDENTS**

**CURRY LEAF SAPLING KITS DISTRIBUTED TO SCHOOL STUDENTS**

**KVK** supplied curry leaf saplings to 5000 school children in a programme sponsored by Prof KV Thomas Vidhyadhanam trust, Ernakulam. The programme was inaugurated by Hon'ble Governor of Kerala Justice P. Sathashivam on 21st January, 2019 at Santacruz Higher Secondary School, Fort Kochi.



Inauguration of curry leaf kit distribution to school children

**ON JOB TRAINING**

**KVK** conducted 6 days on job training on Fish processing and value addition for Plus two students of Vocational higher secondary school, Narakkal during 8-15 October, 2018. The training covered fish procurement, product preparation, packaging, labelling and marketing.



On the Job Training for VHSE students progressing at KVK

**CORNELL UNIVERSITY STUDENTS VISIT**

Students from College of Agriculture and Life Sciences, Cornell University, New York, USA visited KVK's partner farmer's fields located at Pizhala and Manjali during 5-6th January 2019 as part of their course *International agriculture and rural development*. Students interacted with farmers and learned

local farming systems. Cage fish farming, pokkali-fish-shrimp integrated farming, land preparation, were demonstrated to the students.



Cornell University students on visit to KVK



Trainees learning bush pepper production technology

## TRAINERS TRAINING PROGRAMME

The KVK conducted Trainers training programme on Cage fish farming for Kerala KVK staff during 26-27, October 2018 at ICAR-CMFRI, Kochi. The programme was conducted with the objective of taking up collaborative Fisheries and aquaculture projects by Kerala KVK's.



Participants of Trainers training programme on Cage fish farming

## TRAINING PROGRAMMES

Training on Bush pepper production technology conducted at Palluruthy from 15th to 30th March, 2019. The participants 25 in number were trained on commercial Bush pepper production technology and marketing.



**FARM SHOPPE**

**THE SAFE FOOD STORE**



CMFRI, Goshree road, Near High court junction, Kochi -18  
Customer care: 8281488457

**A KRISHI VIGYAN KENDRA ERNAKULAM INITIATIVE**

## PAID TRAINING PROGRAMMES

Sl.No.	Title	Duration	Fee
1	Homestead poultry production	2 days	Rs.750
2	Pearlspot seed production technology	2 days	Rs.700

## SHORT COURSES

The KVK conducted two short courses of Agricultural Skill Council of India (ASCI) each of 25 days duration. The short course *Aquaculture worker* was conducted during 26th November to 20th December 2018 and the course *Nursery worker* was conducted during 15th January to 12th February, 2019. Both the programmes were part of the unique initiative Pradhan Mantri Kaushal Vikas Yojana (PMKVY) of Government of India.



Participants of ASCI short course *Nursery worker*



Participants of ASCI Short course *Aquaculture worker*

## TECHNOLOGY UPDATES

- Smearing banana rhizomes with a slurry of 1kg Cow dung, 1 kg paddy husk ash, 1 litre water and 200 ml CTCRI biopesticide Nanma and further drenching with 2 per cent Nanma solution 15 days after the planting is effective in controlling banana rhizome weevil.



- The Arka Microbial consortium developed by ICAR-Indian Institute of Horticultural Research, Bengaluru can impart disease resistance and vigour in vegetable seedlings grown in coirpith media.

- Liming followed by root zone application of cow dung and micronutrients Boric acid, Zinc sulphate and Magnesium sulphate considerably enhances production in Malabar tamarind while increasing fruit rind thickness and drying ratio.
- The fish market waste can be processed into quality organic manure by aerobic composting by mixing with equal weight of low electrical conductivity (EC) coir pith for a period of 30 to 40 days. The composting tonic of Kerala Agricultural University is an effective microbial inoculum for this composting process.
- The fish Ananbus (*Anabas testudineus*) is not suitable for farming in open water bodies as it is highly larvivorous. In controlled conditions, Ananbus grows slowly and also exhibits differential growth. This issue can be partially resolved by periodical grading and also by feeding management. Consumers prefer Anabus fish of size 400g and above.



- The Mannuthy white pig breed developed by Kerala veterinary and animal sciences university mature in 8-10 months yielding less fatty meat.



- Non-bearing in Mango trees can be managed by drenching 0.2 per cent solution of Paclobutrazol in 5-6 pits made at distance of 1.5 meter from the tree.



- The tomato variety Arkarakshak of ICAR-Indian Institute of Horticultural Research, Bengaluru is suitable for Ernakulam district. This variety has good market preference, low disease incidence and high shelf life of 12-15 days.



## CELEBRATION OF IMPORTANT DAYS AND PROGRAMMES

### VIGILANCE AWARENESS WEEK

**KVK** celebrated Vigilance awareness week during 29th October to 3rd November 2018 with the theme *Eradicate corruption-build a new India*. An essay writing competition was organized for students of Govt. vocational higher secondary school, Narakkal on 5th November 2018. Ms. Ann Mariya Antony, Ms. Sariga Omanakuttan and Ms. Akhila P Wilson respectively won the 1st, 2nd and 3rd prizes.



Essay competition for school children

### MAHILA KISAN DIWAS

**M**ahila Kisan Diwas was celebrated on 15th October, 2018. A talk on *Business strategies for small scale farm enterprises for women* by Dr Lijo Thomas, Scientist, ICAR-Indian Institute of Spices Research (IISR) was organized at CMFRI, Kochi. Women entrepreneurs from various parts of the district participated.



Inauguration of Mahila Kisan Diwas celebration

### SWACHHTA PAKHWADA

**S**wachhta Pakhwada was conducted at KVK from 15 to 31, December 2018 by organizing cleaning of KVK premises and Narakkal beach, conducting public awareness campaign on reducing usage of plastic, implementing collection of used plastic bottles at KVK sales counters and conducting essay competition for school students.



Cleaning of Narakkal beach by KVK staff

### WORLD SOIL DAY

**KVK** celebrated World soil day on 5th December, 2018 at ICAR-CMFRI, Kochi. Dr. Manoj P Samuel, Principal Scientist and Head, Engineering division, ICAR-CIFT delivered a lecture on Post flood soil management. A farmer-scientist interface was also conducted.



World soil day seminar progressing

## NATIONAL FARMER'S DAY

KVK celebrated National farmer's day on 23rd December 2018 by organizing awareness programme on Organic manure production from household wastes. Dr. D.Girija, Professor and head, College of horticulture, Kerala Agricultural University, Vellanikkara conducted the class and demonstrations.



Training on Organic manure production

## LIVE WEBCAST OF INAUGURAL FUNCTION OF PM-KISAN

Live webcast of inaugural function of Pradhan Mantri Kisan Samman Nidhi (PM-Kisan) by Hon'ble Prime minister of India Shri. Narendra Modi was telecasted at CMFRI, Kochi on 24th February 2019. The details of PM-Kisan were conveyed to the farmers followed by a farmer-scientist interaction Smt. Mini Dileep, Narakkal grama panchayath member inaugurated and Dr. A . Gopalakrishnan, Director, CMFRI chaired the programme.



Live webcast of PM-Kisan inauguration

## PARTICIPATION IN EXHIBITIONS

KVK participated in the exhibition *Vaiga Krishi Unnati Mela-2018* during 27 to 30, December 2018 at Thekkinkadu Maidan, Thrissur. KVK products and products of Farmer producer companies were exhibited and business linkages created.



KVK exhibition stalls



## COLLABORATIONS

### AGRICULTURAL TECHNOLOGY MANAGEMENT AGENCY (ATMA)

- KVK and ATMA jointly conducted District krishimela at Nayarambalam during 15-16 February 2019. Agro machinery expo sponsored by AICRP-farm machinery of Kerala agricultural university and Coconut seminar sponsored by Coconut development board (CDB), Kochi were part of the Krishi mela. Various district units of ATMA, Central tuber crops research institute and Central plantation crops research institute participated.
- KVK participated in the ATMA Kissan Goshti at Paraur town hall on 12.12.2018 and Narakkal block on 18.12.2018.

- KVK Participated in the ATMA Farm schools on 26.06.2018 at Krishi Bhavan, Alengad, on 03.07.2018 at Krishi Bhavan, Mookkannur, on 03.11.2018 at Krishi Bhavan, Keezhmad and on 25.02.2019 at Krishi Bhavan, Vadakkekara.
- KVK Participated ATMA General body and Management committee meetings held on 10.08.2018 at Collectorate, Ernakulam.
- KVK Participated in ATMA District farmers advisory committee (DFAC) meeting at Kakkanad on 24th January 2019.



Capacity building on Cage fish culture as part of ATMA Kissan Goshti



District coconut seminar as part of ATMA district krishi mela



Lecture on Brackish water fish farming as part of ATMA Kissan Goshti



Lecture on Fish farming as part of ATMA Kissan Goshti

## DISTRICT KUDUMBASHREE MISSION

**KVK** conducted trainings for 62 women on topics Plant nursery management and Processing and marketing of Agro products during November, 2018. The district Kudumbasree mission gives financial assistance to the trainees.



Training on Value addition for Kudumbasree



Nursery training to kudumbashree SHG members

## SERVICE CO-OP BANKS

**S**ervice co-operative banks are financial institutions successfully operated in village level with Agriculture development in the locality as one of the objectives. The KVK in collaboration with M/s Palliyakkal serviceco-operative bank, Ezhikkara implemented Group farming project-Cage fish culture where KVK extended technology and marketing support while the bank offered credit facility.



Harvest mela at Palliyakkal serviceco-operative bank

## PROGRAMME PARTICIPATION

### F. Pushparaj Anjelo SMS (Agricultural Extension)

1. Entrepreneurship development programme on *Plant health management technologies & start up strategies* organized by ICAR-Indian Institute of Horticultural Research, Bengaluru on 15th March 2019.
2. *Kerala Vipanansavam* organized by National bank for agriculture and rural development (NABARD) on 23rd February 2019 at Thiruvananthapuram.
3. Zonal research and extension advisory council meeting of special zone-problem areas held at Regional agricultural research station, Kumarakom on 30th October 2018.
4. Training on *Integrated pest management in hill crops* organized by ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan (VPKAS), Almora during 2-10 October, 2018.

### Shoji Joy Edison, SMS (Horticulture)

1. Training of Trainers programme at GKVK Campus of University of agricultural sciences, Bengaluru during 24-26 September 2018 organized jointly by National skill development corporation (NSDC), Agricultural skill council of India (ASCI) and Agricultural technology application research institute (ATARI), Bengaluru.

2. Multi disciplinary diagnostic team (MDDT) meeting and brain storming session on Post flood action plan at Ernakulam collectorate on 11th September 2018 and subsequent field visits to flood affected areas on 12th September 2018.
3. Training on Integrated pest management in hill crops organized by ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan (VPKAS), Almora during 2-10 October, 2018.

### Dr. K. Smita Sivadasan , SMS (Animal husbandry)

1. Meeting on *Planning of Agricultural development activities* at Harithakeralam Mission, Thiruvananthapuram on 17th January 2019.
2. Training on *Poultry* organized by ICAR-Directorate of poultry research, Hyderabad during 22nd October to 5th November 2018.

### Dr. P.A Vikas, SMS (Fisheries)

1. International Symposium on *Marine ecosystems challenges and opportunities (MECOS3)* organized by the Marine biological association of India (MBAI) during 8 to 9 January 2019
2. Farmer producer organization business meet-organized by National bank for agriculture and rural development (NABARD) on 19th December 2019 at Kadavanthra, Kochi.

## PUBLICATIONS

1. Smita Sivadasan and Shinoj Subramannian (2018). എറണാകുളം ജില്ല ആട് കർഷക ഡയററി, KVK publication.
2. Vikas P.A and Shinoj Subramannian (2019). Course manual: Agriculture skill council of India (ASCI) certificate course: Aquaculture-worker, ICAR-Central Marine Fisheries Research Institute, Kochi.
3. Vikas P.A and Shinoj Subramannian (2019). കരിമ്പിൻ വിത്തുല്പാദനം. Krishi vinjana pathrika-1/2019, KVK Ernakulam.
4. Vikas P A and Shinoj Subramannian (2019). കരിമ്പിൻ കൃഷി. Krishi vinjana pathrika-2/2019, KVK Ernakulam.
5. Vikas P.A and Shinoj Subramannian (2019). കരിമ്പിൻ വിത്തുല്പാദനം.. Kerala Karshakan, 64 (9), pp:32-33.
6. Vikas P.A and Shinoj Subramannian(2018). അന്നാബസ്പ് കൃഷി കർഷകർ അറിയേണ്ട കാര്യങ്ങൾ. Kerala karshakan, 64(5), p51.
7. Vikas P.A and Shinoj Subramannian(2018). പ്രളയാനന്തരം മത്സ്യ കർഷകർ ശ്രദ്ധിക്കേ കാര്യങ്ങൾ. Kerala karshakan, 63 (3), pp:32-33.
8. P. Kaladharan, T. V. Sathianandan, S. J. Edison, T. S. Shahana and P. Vysakan (2019). Effects of basal application of mulch and foliar spray of sargassum wightiiextract on certain vegetable crops, Fishery technology 56: 44 – 48.

## RADIO TALKS

1. Smita Sivadasan.K. കെ.വി.കെ. യുടെ പ്രവർത്തനത്തിലൂടെ മൃഗക്ഷേമം, Kochi FM 102.3 broadcasted on 04-10-2018.

- Vikas P.A. കരിമീൻ കൃഷി, Kochi FM 102.3 broadcasted on 08-11-2018.
- Vikas P.A. കരിമീൻ വിത്തുല്പാദനം, Kochi FM 102.3 broadcasted on 30-01-2019.

## COLLABORATIONS

**The KVK collaborated with various organizations by sharing its expertise for their programmes during the year 2018-19**

### **Agricultural technology management agency (ATMA), Ernakulam:**

Lecture to farmers on *Brackishwater fish farming: scope and prospects* on 16th February 2019 by Dr. PA Vikas, Subject matter specialist (Fisheries), Training on *Scientific banana cultivation* to farmers on 26th October, 2018 at Ernakulam by Shri. F. Pushparaj Anjelo, Subject matter specialist (Agricultural Extension) and Training to farmers on *Integrated pest management in vegetables* on 25th February 2019 at Vadakkekara by Shri. Shoji Joy Edison Subject, Matter specialist (Horticulture).

### **Office of Assistant director-agriculture, Kalamassery:**

Training to farmers on *Good agriculture practices* on 8th November, 2018 at Thrikkakara by Shri. Shoji Joy Edison, Subject Matter specialist (Horticulture).

### **Office of Assistant director-agriculture, Alengad:**

Training to farmers on *Integrated pest management in vegetables* on 23rd December 2018 by Shri. Shoji Joy Edison, Subject Matter specialist (Horticulture).

### **The Palliyakkal service co-operative bank, Ezhikkara:**

Training to Self help group members on *Cage fish culture* on 14th November 2018 at Ezhikkara by Dr. PA Vikas, Subject matter specialist (Fisheries).

### **Gandhi Smaraka service co-operative bank, Paravur:**

Training to farmers on *Cage fish culture* on 10th

January 2019 by Dr. PA Vikas, Subject matter specialist (Fisheries).

### **Krishi bhavan, Keezhmad:**

Training to farmers on *Integrated pest management in Rice* on 3rd November, 2018 at Keezhmad by Shri. Shoji Joy Edison Subject Matter specialist (Horticulture).

### **Bharath matha college, Thrikkakkara:**

Training to students on *Organic vegetable cultivation* on 22nd November 2018 at Thrikkakkara by Shri. Shoji Joy Edison Subject Matter specialist (Horticulture).

## PERSONNEL

### Appointments



**Shri. Binoop C S**  
Technician-T1/  
Motor driver



**Shri. Sineesh Ambi**  
Technician-T1/  
Motor driver

### Superannuation



**Shri. V.C Subhash**  
Assistant  
on 28-02-2019

## CMFRI NEWS

### CONFERENCE OF FISHERIES MINISTERS ORGANISED

The CMFRI jointly with ICAR- Central institute of fisheries technology, Kochi, Department of fisheries, Kerala and Kerala university of fisheries and ocean studies (KUFOS) organized conference of fisheries ministers from south Indian states during 10-11 November 2018 at ICAR-CMFRI, Kochi. Hon'ble Chief Minister of Kerala, Shri. Pinarayi Vijayan inaugurated the conference where fisheries ministers and senior officials from Kerala, Maharashtra, Andhra Pradesh, Goa, Karnataka, Tamil Nadu, Puducherry, Lakshadweep and Andaman and Nicobar Islands attended. The conference recommended various measures towards good governance and sustainable fisheries.



Inauguration of Fisheries Ministers' Conference

### CMFRI COMMERCIALISED ANTI-HYPOTHYROIDISM EXTRACT FROM SEAWEEDS

ICAR-Central Marine Fisheries Research Institute has commercialized a nutraceutical product developed from seaweeds, Cadalmin™ ATe Anti-hypothyroidism extract to M/s Vandana Luthra Curls and Curves (VLCC), a leading Indian company in wellness. The extract has activity against hypothyroid dysfunctions. Dr. A. Gopalakrishnan, Director, ICAR-CMFRI signed an exclusive license agreement on 29th November 2018.



Cadalmin™ ATe Anti-hypothyroidism extract

### PROFITABLE SEAWEED FARMING DEMONSTRATED

The Tuticorin research centre of ICAR-CMFRI demonstrated profitable Seaweed farming at Tsunami Nagar, Thoothukudi, Tamil Nadu and a harvest mela organized on 11th December 2018 to popularise the technology. Seaweed farming is a climate resilient farming practice that is expected to combat the effect of carbon emission while ensuring additional livelihood source for the farmers. Yield of 10 tonnes wet seaweeds worth Rs.40,000/- could be obtained from a single plot of 100 monolines during culture period of 30-35 days.



Harvest of seaweeds at Thoothukudi

### SILVER POMPANO HATCHERY INAUGURATED

The ICAR-CMFRI set up a hatchery at its Vizhinjam research centre near Thiruvananthapuram, Kerala to produce Silver pompano fish seeds. The facility inaugurated on 8th December 2018 by Ms. Rani Kumudini IAS, Chief executive, National fisheries development board, Hyderabad is expected to supply quality seeds of this candidate species potential for Sea cage farming.



Inauguration of National Broodstock Facility for silver pompano at CMFRI, Vizhinjam

# KVK IN PRINT MEDIA

The collage features several newspaper clippings:

- Indian Express (March 6, 2019):** "THE ONE-STOP DESTINATION FOR NATURAL PRODUCTS".
- Deccan Chronicle (March 13, 2019):** "Drip irrigation kit for sale at CMFRI".
- Malayalam Dina (March 13, 2019):** "ജലം ലാഭിക്കാൻ തുള്ളിനന കിറ്റ്" (Water saving kit).
- Malayalam Dina (March 12, 2019):** "മലയിറങ്ങി വരുന്നു, കിർഷകരുടെ അധ്വാനം" (Water is coming down, farmers' hard work).
- Indian Express (December 14, 2018):** "KVK to set up 15 satellite seed production centres".
- Indian Express (December 20, 2018):** "മത്സ്യകൃഷിയിൽ വിദഗ്ദ്ധ കോഴ്സ്" (Specialized courses in aquaculture).
- Malayalam Dina (March 20, 2019):** "നനയ്ക്കാൻ ഇത്തിരി വെള്ളം മതി തുള്ളിനന കിറ്റ് തയ്യാർ" (Only a little water is enough to water with the water saving kit).
- Malayalam Dina (March 23, 2019):** "വിദ്യാർത്ഥി സമൂഹം കാർഷിക മേഖലയിലേക്ക് കടന്നുവരണം - ഗവർണ്ണർ" (Students should come to agriculture - Governor).



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