



# TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

## DIRECTORATE OF EXTENSION EDUCATION, CHENNAI

### ICAR-KRISHI VIGYAN KENDRA, NAMAKKAL - 637 002

Vol. 2

NEWS LETTER

No. 4

OCTOBER - DECEMBER 2017

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Krishi Vigyan Kendra, Namakkal, is a centre for transfer of technologies from lab to various groups like Farming Community, Self Help Groups, Rural Youths, Extension Personnel etc., through organizing various events like Trainings, On Farm Testing, Front Line Demonstrations and Advisory services regularly. To impart the scientific skills and knowledge among the farm women, farmers & physically challenged people and to adopt the scientific technologies in their farms, KVK has conducted various training programmes, awareness campaigns, exhibitions, demonstrations and field days during the period. The summary of activities done in October to December 2017 is presented hereunder.

#### Eleventh Scientific Advisory Committee (SAC) Meeting

Krishi Vigyan Kendra has conducted its Eleventh Scientific Advisory Committee (SAC) Meeting on 07.11.2017 at KVK campus. The meeting was chaired by the honorable Vice Chancellor of Tamil Nadu Veterinary and Animal Sciences University, Chennai. Dr.Y.G.Prasad, Director, ICAR-Agricultural Technology Application Research Institute (Zone-X), Hyderabad and Dr.N.K.Sudeep Kumar, Director of Extension Education, Tamil Nadu Veterinary and Animal Sciences University, Chennai along with other SAC members from National Research Centre for Banana (ICAR), Trichy, Tamil Nadu Agricultural University, Coimbatore, officials from Agriculture, Horticulture, Agricultural Marketing and Agri Business, Sericulture, Agricultural Engineering, Public Works Department, Animal Husbandry, Fisheries, District Industries Centre, District Forest Officer, Lead Bank Manager, NABARD Bank Assistant Manager, Assistant General Manager, Aavin, Programme Executive, All India Radio, Trichy, big and small farmer representatives were participated in the meeting.

An exhibition was arranged to show case the success of OFTs and FLDs implemented in 2016-17 and efforts of KVK in organic farming at Namakkal district. The exhibits were displayed in 10 stalls by 25 farmers and it was viewed by the SAC members and other farmers. Dr.N.Akila, Senior Scientist & Head, KVK, Namakkal welcomed the SAC members and farmers for the Eleventh Scientific Advisory Committee and presented the action taken report of tenth SAC meeting, work done particulars and future action plan. All the six Subject Matter Specialists presented their work done particulars. The honorable Vice



Chancellor and SAC members given their recommendations for future growth and development of KVK.

### **One day Seminar cum Exhibition on World Soil Day 2017**

To create awareness among the farmers about sustainable soil health, World soil day programme cum exhibition was



conducted at KVK, Namakkal on 05.12.2017. A total of 752 farmers and students were participated. In the exhibition KVK, Namakkal has displayed nine stalls related to soil fertility management i.e. Thematic stall on integrated nutrient management having organic manures, inorganic fertilizers, biofertilizers, soil amendments, PUSA STFR and MRIDAPARIKSHAK mini soil testing labs, Private fertilizer companies (KRIBHCO and IFFCO) displayed inorganic fertilizer products, State Department of Agriculture parked mobile soil testing van in the exhibition. Dr.G.A.Balasubramaniam, Dean, Veterinary College and Research Institute, Namakkal inaugurated the exhibition and presided the function with special lecture on soil health management. Also he narrated the inception of World Soil Day programme on 5th December and asked farmers to apply fertilizers after soil testing for sustainable soil health. Dr.N.Akila, Senior Scientist and Head welcomed the gathering and emphasized the importance of world soil day celebration. Dr.K.Prabhakaran, Dean, P.G.P. College of Agricultural Sciences, Namakkal distributed the soil health cards to farmers and addressed the gatherings on maintaining soil health by adopting better farming practice. Th.M.Subbaiah, Joint Director of Agriculture i/c, Namakkal, Th.R.Subramaniam, Personal Assistant to Collector (Agriculture), Th.M.Jayamani, Executive Engineer, Th.S.Jagadesan, Assistant Executive Engineer, Dr.V.Palanivel, Assistant Director of Animal Husbandry, Tmt.S.Manimegalai, Assistant Director of Horticulture and Th.K.Jeganathan, Regional Manager,

KRIBHCO, Tuticorin has also participated and felicitated event by giving special address on soil health management. Dr.D.Raja, Professor (Agronomy), Tapioca and Castor Research Station, Yethapur participated and delivered guest lecture on "Soil Fertility Management and Role of organic manures on soil fertility management" and Th.L.Mayakrishnan, Assistant Director of Agriculture delivered "Soil fertility management". The speech of Prime Minister Thiru. Narendra Damodardas Modi on "Importance of Soil Testing" in Manki Ki Bath programme was broadcasted in All India Radio, New Delhi. The same message was translated into Tamil and circulated to participants as pamphlet to educate the farmers about soil health card. Soil health card achievement hoarding having size of 16'X8' was placed in front of KVK building so as to create awareness among the farmers visited the KVK, public, students, farm women and Industrialists. Dr.S.Sathya, Assistant Professor (Soil Science) presented vote of thanks and finally programme ended with National Anthem.

### **Awareness Campaign and Exhibition on Plant Protection Varieties & Farmers Right Act 2001 (PPV & FRA 2001) programme**

Plant Protection Varieties & Farmers Right Act 2001 (PPV & FRA 2001) programme was celebrated on 30.11.2017 at the



conference hall of the Taluk Office, Semmedu, Kolli hills. Totally 113 farmers were participated. Traditional & native species of Kolli hills such as Hill banana var. Namaran, Black beans, White beans, Pepper, Clove, Nutmeg, Cinnamon, Millets and Fruit crops were displayed in the exhibition by the farmers. Araikkal Millet Producer Organization displayed value added millet products, MSSRF, Kolli hills displayed traditional millet seeds and spice seeds, Kolli hills horticulture department displayed spice crops grown in Kolli hills. Dr.N.Akila, Senior Scientist and Head inaugurated the function and discussed about PPV & FRA 2001 among



the farmers. Th.S.Soundharajan, Assistant Director of Agriculture, Kolli hills, Th.P.Chinnadurai, Assistant Director of Horticulture, Semmedu, Kolli hills Th.T.Gowdhaman, Agricultural Officer, Kolli hills MSSRF foundation President were participated and felicitated the event. Dr.R.Vijayan, Assistant Professor (Seed Technology), KVK, Sandhiyur delivered the guest lecture on “Plant Protection Varieties & Farmers Right Act 2001” and Th.K.Ganaprakasam, Scientist, MSSRF has delivered the guest lecture on “Procedure to get geographical indication to the native species” at the event. Farmers having traditional varieties were honoured at the event. Native banana species of Kolli hills such as Namaran banana and Manoranjitham (Karuvazhai) has been identified for getting Geographical indication. Finally Dr.C.Sharmila Bharathi, Assistant Professor (Horticulture) has given vote of thanks.

#### **Farmers orientation programme on Infertility management techniques in dairy cattle to get one calf per year TNLDA programme**

TNLDA - NPBB  
Phase II farmers  
orientation  
programme on  
Infertility  
management  
techniques in dairy  
cattle to get one  
calf



per year was conducted at Paavalar. M. Muthusamy Municipality Hall, Thuraiyur Road, Namakkal district on 15.12.2017. Totally 500 farmers owning dairy animals and 34 extension officials were participated in the programme. KVK, Namakkal, Pharmaceutical companies (Intervet India Pvt. Ltd., Ceva Polchem Pvt Ltd., Amul cattle feed, Hindustan Veterinary Enterprises), Velan Pudumai and Dairy Entrepreneur (Chiyalamman organic farm) were displayed thematic stalls in the exhibition viz., infertility management, mineral supplementation, alternative feeds such as azolla, hydroponics, clean milk production technologies, fodder seeds, saplings, veterinary health products, farm equipment for drudgery reduction,

value added milk products and by products. Mrs.M.Asia Mariam, District Collector inaugurated exhibition and delivered presidential address. In this she advised farmers to adopt scientific management practice in dairy farming to get more profit. Clean milk production and mineral supplementation kit was distributed by the District Collector to encourage the dairy farmers for adoption of innovative dairy technologies. Dr.N.Akila, Senior Scientist and Head welcomed the officials in the dias, farmers assembled in the gatherings and narrated the importance of conduct of this programme. Dr.M.Srinivasan, Regional Joint Director of Animal Husbandry, Th.R.Subramanian, Personal Assistant to Collector (Agriculture), Dr.V.Palanivel, Assistant Director of Animal Husbandry, Th.R.Karikalan, Ex Chairman, Namakkal has also participated and felicitated the event. Dr.R.K.Ravikumar, Scientist National Innovation Foundation, Dehradun delivered guest lecture on “Traditional veterinary practices for sustainable dairy farming, Dr.K.Senthil Kumar, Assistant Professor, Dept. of Veterinary Obstetrics and Gynecology, Veterinary College and Research Institute, Namakkal delivered “Management strategies to get one calf per year”. Subclinical mastitis assessment was demonstrated, video lessons screened and booklet on feeding and breeding management of dairy cattle was distributed to the participants. Dr.M.Jothilaksmi, Assistant Professor (Animal Science) delivered vote of thanks and finally the programme was ended with National Anthem.

#### **Awareness programme on Safe and Judicious use of Pesticides**

One day  
Awareness  
programme on Safe  
and Judicious use of  
pesticides was  
conducted on  
11.12.17 at KVK,  
Namakkal. Totally 151 farmers were participated and benefited.



Dr.N.Akila, Senior Scientist and Head, KVK, Namakkal, welcomed the gathering and inaugurated

the function. Dr.S.Gnanasambantham, Assistant Director in Central Integrated Pest Management in Agriculture and Farmers Advisory Services, Trichy, Dr.S.Kannan, Dupty Director of Horticulture, Namakkal, Th.P.Murugan, Assistant Director of Sericulture, Namakkal, Th.L.Mayakrishnan, Assistant Director of Agriculture, Namakkal has participated and felicitated the event. Dr.K.Prabhakaran, Dean, P.G.P. College of Agricultural Sciences, Namakkal has given special address on safe use of pesticides. Th.M.Subbaiah, Joint Director of Agriculture (i/c), Namakkal has participated and presided the function with special address. Technical lecture on the safe use of pesticides and handling of weedicides was delivered by Th.C.Sankar Assistant Professor (Entomology), Krishi Vigyan Kendra, Namakkal and Dr.T.Raja, Professor (Agronomy), Tapioca and Castor Research Institute, Yethapur, Salem respectively. Th.K.Arivuselvan, Sales Officer, Bayer Crop Science, Namakkal has explained about Terms and Conditions while spraying of pesticides, Th.S.Yuthisaran, BASF India limited, Perambalur has explained about safety measures while spraying of insecticides, Th.K.Ramesh, Dove Agro Sciences limited, Coimbatore has explained about handling of spraying equipments while spraying and Th.M.Kalimuthu, Reliance Foundation, Namakkal discussed with farmers about safe use of pesticides. Finally the event ended with vote of thanks given by Th.C.Sankar Assistant Professor, KVK, Namakkal.

#### **TANUVAS village adoption programme Cattle Parturition day**

KVK, Namakkal under TANUVAS village adoption programme celebrated cattle parturition day on 23.10.2017 at Veterinary Dispensary, Kalangani, Puduchatram block for celebrating the calves born under OFT programme of KVK, Namakkal entitled "Enhancing pregnancy rate in dairy cattle by using TRIU-B to augment fertility" in



which 90% and 85% conception was achieved in TRIUB and vaginal sponge respectively. In this parturition day programme, fodder seed COFS29 and deworming medicine for calves born in estrus synchronization programme was distributed to farmers for encourage them to adopt estrus synchronization programme to overcome infertility problem. Besides, to overcome mastitis in these animals method demonstration to prevent mastitis was carried out. In this programme a total of 40 farmers and Dr.P.Rajamanohar, Deputy Director, Department of Animal Husbandry, Namakkal, Dr.N.Akila, Senior Scientist and Head, Dr.P.Murugan, Assistant Professor (Agronomy), Dr.M.Jothilakshmi, Assistant Professor (Animal Science) and Dr.Sumathi, Veterinary Assistant Surgeon were participated.

#### **Financial literacy programme on Children's day**

KVK, Namakkal celebrated Children's day programme by conducting financial literacy awareness among the primary school children of Panchayat Union



Public School, Aniyapuram on 14.11.17. In this event, essay and oratory competition on importance of small savings conducted, best three students were selected, distributed with prizes of cash boxes for sustaining their interest in small savings and make it as a habit at their young age. In this programme Senior Scientist and Head, distributed the prizes to the winning students. Dr.M.Jothilakshmi, Assistant Professor, KVK, Namakkal was organized and participated in this programme.

#### **National Milk Day**

November 26, 2017 is celebrated as National Milk Day on Commemorating Kurien, the doyen of co-operatives. KVK, Namakkal was organized a programme on Clean Milk





Production (CMP) at Milk Producers Co-operative Society, Kalangani. In this programme, clean milk production techniques using teat tip and innovative technologies of Veterinary Varsity were demonstrated to dairy farmers. In this function a total of 20 dairy farmers participated and benefited. Dr.Sumathi, Veterinary Assistant Surgeon, Kalangani and Dr.M.Jothilakshmi, Assistant Professor, KVK, Namakkal were participated and taught clean milk production techniques to dairy farmers. Critical inputs for CMP such as teat dip and KMnO<sub>4</sub> were distributed to farmers under OFT Programme of ICAR and TANUVAS Village adoption.

### National farmer day

KVK Namakkal has celebrated National Farmers Day on 29.12.2017 at KVK campus. Totally 75 farmers were participated. Dr.N.Akila, Senior

Scientist and Head, narrated the role of farmer's day in food grain production and involvement of farmers in other farming sector for growth of nation. In the event, livestock farming as an additional enterprise for doubling the farmers income was covered by Dr.M.Jothilakshmi, Assistant Professor (Animal Science) to farmers and Veterinary Assistant Surgeons.

### Special Programmes



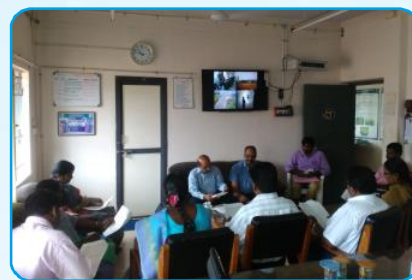
Date	Name of the Programme	Venue	No. of Participants
16.10.17	Mahila Kisan Diwas	Aniyapuram pudhur	27

31.10.17 - 04.11.17	Vigilance Awareness Week	KVK, Namakkal	30
21.11.17	World Fisheries Day	KVK, Namakkal	53
27.11.17	Constitution Day	KVK, Namakkal	30

### Visit of Dignitaries to KVK, Namakkal

Dr.S.Thilagar, Vice Chancellor of Tamil Nadu Veterinary and Animal Sciences University, Chennai Dr.Y.G.Prasad, Director, ATARI Zone X, Hyderabad has visited KVK, Namakkal on 07.11.2017 and given suggestions for further growth and development of KVK.

Dr.J.V.N.S.Prasad, Professor and C.A. Ramarao, Professor of CRIDA, Hyderabad has visited the KVK and NICRA village for collecting information on Climate resilient practices from 03.11.2017 to 05.11.2017.



### On campus training programme

From October to December 2017, nineteen on campus trainings were conducted at KVK, Namakkal with 655 farmers. Rice and oilseed production

technologies, tapioca, small onion production technologies, soil fertility improvement, integrated nutrient management practice, sericulture farming, agro forestry system, mass production of organic pest repellent and mealy bug parasites production, storage pest management, white pig rearing, desi chicken rearing, infertility management in dairy cattle, shrimp culture, murrel farming, gift tilapia culture were trained during these trainings.



## Training with line departments

KVK Namakkal has organized 23 trainings in association with agriculture and animal husbandry departments. A total of 1224 farmers were participated. The major themes on mushroom cultivation, integrated crop management practice, free goat and sheep farming were taught to farmers at farmer's field in different blocks of Namakkal district. Out of 23 trainings, 21 trainings with 1170 participants belongs to free goat and sheep farming. To improve the economic status of farmers with available resource goat farming has been promoted among the farmers through free training programmes.



## Sponsored training programme

Two NABARD sponsored six days skill development training was conducted at KVK campus with 60 participants (30 farmers / training & 3 days / training) entitled "Organic Roof Top Vegetable Gardening" held from 12.12.2017 to 14.12.2017 and Nursery management in horticultural crops from 19.12.2017 to 21.12.2017. In these programme, farmers were practically trained on portray nursery preparation, roof top gardening and grafting, budding and layering techniques in Horticultural crops. Exposure visit was made to Uyir Organic farm, Erode, Protray Nursery Unit at Karkoodalpatti, Successful Roof top garden units formed by KVK farmers at Namakkal, Giant Orchard, Karumanthurai and Private Nursery unit at Rasipuram.



## Paid training programme

KVK, Namakkal has conducted one paid training entitled "Aquaculture-Freshwater and Brackish water

fish seed production and culture technology" on 18.12.2017 with 23 Students. In this programme, site selection, selection of suitable fish species, feed management, water quality monitoring, disease management, post harvest technology and value added products preparation were trained to them.



## Off campus training programme

Based on the need of farmers, location specific 17 off campus trainings were conducted at farmer's field to propagate the technologies related to Agriculture, Horticulture, Animal Husbandry and Fisheries sectors with 507 farmers.



## Zonal workshop

Two monthly zonal workshops for agricultural department officials were conducted on 10.10.17 and 14.11.17 at KVK, Namakkal. A total of 65 extension officials were participated. Scientist of KVK, Namakkal were delivered the technical lectures related the seasons. Major field problem in different blocks of Namakkal district were discussed and suggestions were recommended.



## Exhibitions conducted/ participated

KVK, Namakkal has conducted five exhibitions during SAC meeting, PPV & FRA 2001, World Soil Day 2017, Pesticides use awareness programme and TNLDA phase II programme on 07.11.2017, 30.11.17, 05.12.17, 11.12.17 and 15.12.17 respectively in this



quarter. Totally 1630 farmers were participated and benefitted in the exhibition. In the above exhibitions soil fertility management inputs (kinds of organic manures, biofertilizer, inorganic fertilizers, soil amendments), PUSA STFR and Mridaparikshak Mini soil testing labs, high yielding pulses and groundnut varieties, fodder seeds, saplings, organic inputs, vegetables, flower crops, traditional plants & products, infertility management techniques, mineral supplementation, alternative feeds such as azolla, hydroponics, clean milk production technologies were displayed. MSSRF displayed traditional crop seeds, Fertilizer Companies (IFFCO and KRIBHCO) displayed solid and liquid fertilizer, Pharmaceutical Private Companies (Intervet, Polchem, Amul, Hindustan) displayed veterinary health products, Velan Pudumai displayed farm equipment for drudgery reduction, Farm Entrepreneur (Chiyyalamman organic producers) exhibited value added milk products and by products, Araikkal displayed millet by products in the exhibition. Agriculture, Horticulture and Animal Husbandry departments and Veterinary College & Research Institute, Namakkal has also participated and exhibited important schemes available for farmers, mobile soil testing van, different stages of calf development, infertility management techniques and organic roof top gardening kit in the event. KVK Namakkal has also participated in the TNAUVAS foundation day exhibition with 85 Namakkal farmers.



### Soil & water analysis & issue of soil health cards

Since October to December 2017, 160 soil samples & 29 water samples received and tested. Totally 172 soil health cards and 29 water health cards issued to



farmers with soil test based integrated fertilizer recommendation. Based on the analytical results soils were deficient in available nitrogen, zinc, boron and organic carbon. To improve the fertility status of soil, farmers were advised for practicing green manuring and biofertilizer application during training programme, field visit and issue of soil health cards.

### Awards received by KVK farmer

KVK farmers namely Th.K.Senkottaiyan from Sevagoundanpalayam, Th.V.S.Rajhu from Koolipatti and Th.C.Periyasamy from Manuvakattupalayam were honored by The Vice Chancellor, TANUVAS and The Director, ATARI, Zone X during eleventh SAC meeting for best farming practice in their farms after getting proper skills from KVK. Also KVK farmers Th.K.Senkottaiyan from Sevagoundanpalayam, Th.R.Vellappagounder from Kalappanaikanpatty received best farmer award for integrated farming system and Th.V.S.Rajhu from Koolipatti received for Goat farming during TANUVAS foundation day held from 09.11.2017 to 10.11.2017 at Velu Mahal, Dindigul.




### Exposure visit

660 students from various blocks of Namakkal district visited the KVK, Namakkal for science awareness programme, 85 farmers from Perambalur and Namakkal district, 28 ATMA farmers from Ballari, Karnataka state for Interstate exposure visit from October and December 2017. Totally 773 farmers and students were getting exposure to this Kendra and got technical and practical guidance about the technologies available in instructional and demo units.



## Success story

1.	Name & Address of the farmer	 <b>Th. K.K. Velusamy</b> S/o. S. Kandasamy, Palapatti, Paramathy Velur (Taluk), Namakkal District. Cell : 94432 23707
2.	Type of farm	Integrated farming System adopted since November 2010 after getting proper skill
3.	Income generated / annum	Rs. 13,62,200/- as a net profit.
4.	Innovative package of practice adopted by the farmer	<ul style="list-style-type: none"> <li>❖ Off season vegetable cultivation, pandhal system of vegetable cultivation under drip irrigation.</li> <li>❖ Fruit fly trap for the management of pest in cucurbitaceous vegetables.</li> </ul>
5.	Technologies Practiced	<ul style="list-style-type: none"> <li>❖ Pandhal system of vegetable cultivation.</li> <li>❖ Fruit fly trap.</li> <li>❖ Drip irrigation.</li> <li>❖ Off season vegetable cultivation.</li> <li>❖ Grading of vegetables.</li> <li>❖ Packing of vegetables in plastic crates.</li> <li>❖ Daily marketing of vegetables at Uzhavarsanthai.</li> </ul>
6.	Strategies adopted for control of disease	Adoption of scientific as well as preventive application of biopesticide and bio fungicide for the control of pest and disease at his farm.
7.	Number of employment created	Totally 6 labours engaged at his farm all over the years (1 family and 5 hired labour)
8.	Tie up with other agencies	<ul style="list-style-type: none"> <li>❖ Department of Agriculture Marketing, Namakkal for sale of fresh vegetables in Uzhavarsanthai, Namakkal.</li> <li>❖ Department of Horticulture for erection of Pandhal for trailing of cucurbitaceous vegetables.</li> <li>❖ Coconut Board, Cochin for getting daily sale price of coconut copra.</li> <li>❖ TANUVAS for getting scientific intervention</li> </ul>
9.	Economic empowerment of the farmer	Rs. 13,62,200/-

### FOR MORE DETAILS PLEASE CONTACT

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### ICAR - Krishi Vigyan Kendra, Namakkal

To  
Mr/Mrs \_\_\_\_\_

\_\_\_\_\_

From \_\_\_\_\_

Senior Scientist & Professor and Head  
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