



**TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY**  
**DIRECTORATE OF EXTENSION EDUCATION, CHENNAI**  
**ICAR-KRISHI VIGYAN KENDRA, NAMAKKAL - 637 002**



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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 improve the livelihood of farm women, farmers & physically challenged people, various sponsored trainings on vermicompost preparation, canopy management, kitchen gardening, profitable dairy farming, native chicken rearing, green fodder production were conducted during the quarter. Due to shortage of rainfall & drought, trainings & extension activities were mainly focused on drought mitigation. To frame the ideas for future plan, participatory rural appraisal survey, zonal workshops, group discussion & SAC meeting were organized at KVK premises & farm holdings with line department officials. The nutshell of the activities carried out in January to March 2017 is presented below.

**Awareness campaign on drought mitigation**



at KVK, Namakkal to protect animals & crops from severe drought.

Awareness campaign on low cost drought mitigation techniques like hydroponics fodder production & irrigation system in perennial horticulture crops was conducted on 24.03.17



benefitted in the event. Technical lecture & demonstration on the above technologies were conducted to create awareness among the farmers to adopt low cost technologies at their farm holdings. Dr. S. Alagudurai, Assistant Professor (Agronomy) welcomed the gathering, delivered technical lecture on Hydroponics fodder production & demonstrated the same to farmers. Dr. N. Akila, Senior Scientist & Head delivered special lecture on importance of drought mitigation techniques. Dr. C. Sharmila Bharathi, Assistant Professor (Horticulture) demonstrated the low cost irrigation methods with mud pot, plastic bottles, fluid bottle & PVC tube with coir pith to perennial crops to farmers. Mr. C. Sankar, Assistant Professor (Agricultural Entomology), Dr. M. Jothilakshmi, Assistant Professor (Animal Sciences), Dr. S. Sathya, Assistant Professor (Soil Science) & Dr. S. Paulpandi, Assistant Professor (Fisheries) were also clarified the queries & discussed with farmers about drought mitigation technologies.



The honorable District Collector visited the Hydroponics unit, low cost irrigation methods, azolla unit, slattered floor houses for goat & sheep unit, fish unit, organic pest control preparation units & soil, water testing laboratory unit & discussed with farmers to make use of the technologies available in KVK to improve their livelihood.

### Action plan meeting



Agricultural Technology Application Research Institute, Bengaluru and Tamil Nadu Veterinary and Animal Sciences University has conducted the Annual Action Plan Meeting 2017-18 for the KVKs of Tamilnadu and Puducherry from 16.03.2017 to 18.03.2017 at KVK, Namakkal. Honorable Vice Chancellor of TANUVAS has inaugurated the programme. In the inaugural address the Vice Chancellor greeted the KVKs for their service to the community and suggested to take up location specific problems. Dr. Sreenath Dixit, Director, ATARI, Bengaluru and Dr. Y.G. Prasad, Director, ATARI, Hyderabad participated and conducted the action plan meeting along with Dr. N.K. Sudeep Kumar, DEE, TANUVAS, Dr. H. Philip, DEE, TNAU, Dr. M.J. Chandre Gowda, Principal Scientist, ATARI, Bengaluru and the experts from TNAU and TANUVAS. The Programme Coordinators of 29 KVKs presented their action plan for 2017-18 and it was reviewed, finalized by the experts.



### TANVAS Community Radio Station Inauguration



The "TANUVAS Community Radio Station-91.2" located at KVK, Namakkal was inaugurated on 16.03.2017 by the Honorable Vice Chancellor of TANUVAS and Dr. Y.G. Prasad, Director, ATARI, Hyderabad. Dr. Sreenath Dixit, Director, ATARI, Bengaluru, Dr. N.K. Sudeep Kumar, DEE, TANUVAS, Dr. S. Gunaseelan, Dean, VC&RI, Namakkal, Dr. H. Philip, DEE, TNAU and

Dr. M.J. Chandre Gowda, Principal Scientist, ATARI, Bengaluru were participated and facilitated the event.

### Scientific Advisory Committee (SAC) meeting

KVK, Namakkal has conducted its tenth Scientific Advisory Committee meeting on 14.02.2017 at KVK, Namakkal. The tenth SAC meeting chaired by Dr. N.K. Sudeep Kumar, Director, DEE, TANUVAS, Chennai. Dr. N. Akila, Senior Scientist & Head, KVK, Namakkal welcomed the SAC members and farmers for the tenth Scientific Advisory Committee and presented the action taken report of ninth SAC meeting & work done for the period from 01.02.2015 to 31.01.2017 and Action plan for 2017-18. All the six Subject Matter Specialists presented their work done particulars for the year 2015-16 & 2016-17. Totally 50 nos. of SAC members & farmers were participated (Male-34 nos. & Female-16 nos.). The members suggested the ideas & thrust areas to frame the action plan for 2017-18 for betterment of farming community. The Director of Extension Education appreciated and thanked all the farmers & members of the SAC who have supported for development of science at farmers level through KVK, Namakkal.



### Visit of Director, CRIDA to KVK, Namakkal



Dr. Ch. Srinivasa Rao, Director, CRIDA has visited the Vadavathur-NICRA village & KVK, Namakkal on 11.02.2017 to review the activities carried out in different modules of NICRA scheme from 2011-17. The Senior Scientist & Head narrated the activities carried out in NICRA village during the past six years. The Director offered suggestions and recommendations to strengthen the activities and create the NICRA village-Vadavathur as "NICRA Model village".

### Awareness campaign on mango cultivation techniques

KVK, Namakkal has organized awareness campaign on mango cultivation practices on 30.01.2017 at Pallamparai village, Sendamangalam block. Dr. N. Akila, Senior Scientist & Head, narrated the activities of KVK & the purpose of conducting campaign on mango cultivation.

To impart the scientific knowledge on mango cultivation practices, technical lectures on soil fertility management for mango cultivation was delivered by



Dr. S. Sathya, Assistant Professor (Soil Science), Production techniques and canopy management in mango by Dr. C. Sharmila Bharathi, Assistant Professor (Horticulture) & Organic method of pest & disease control in mango by Th. C. Sankar, Assistant Professor (Agricultural Entomology)



during the event. Totally, 150 farmers (Male - 89 nos. & Female - 51 nos.) were participated & benefitted by this programme.

### Skill training programme

KVK, Namakkal was sanctioned with two skill training programmes for 20 farmers in each course viz., small poultry farmer & piggery farmer for 200 hrs (25 days). The



courses were started on 09.02.2017 & completed on 15.03.2017 & interim & final assessment of trainees was conducted by KVK, Namakkal & Agricultural Skill Council of India on 15.03.2017 & 04.04.2017 respectively. In this course theory classes on scientific management of native chicken rearing & piggery farming were taught. To equip skills of trainees, practical classes were handled on concentrate feed preparation, ethno veterinary treatment, vaccination, deworming, candling of eggs, brooding of chicks, housing management & balanced feeding in poultry farming. Similarly tail docking, cutting of needle teeth,



concentrate feed preparation, ethno veterinary medicine, vaccination, feeding management & deworming practices were done in pigs.

### Training for extension functionaries

A training programme for extension functionaries entitled "drought management in horticultural crops and bee keeping" for AHOs, HOs & ADHS of Namakkal District was conducted at KVK, Namakkal on 24.01.2017. Dr. C. Sharmila Bharathi & Th. C. Sankar were conducted the training programme. Totally 37 officials participated and benefitted.



### Sponsored training



A total of 21 on & off campus trainings were conducted during the last three months. Of which, 16 trainings were funded by ATMA to 600 AMMA Farm women group members

& Puduvaazhu for 33 farmers for trainings on "Profitable dairy farming, green fodder production, native chicken rearing & ethno veterinary medicine in livestock farming". Hi -Tech Production techniques in Horticultural crops under NADP for 100 farmers from 7 blocks viz., Vennandhur, Rasipuram, Namagiripettai, Mallasamudhiram, Pallipalayam, Kabilarmalai & Pudukhathiram was conducted at KVK, Namakkal on 18.01.2017 & 19.01.2017. Fertigation techniques, soil fertility management, protray nursery techniques for turmeric, integrated pest & disease management was delivered to trainees. A training on preparation of vermicompost was



conducted to farmers & was sponsored by SBGF & DHAN foundation, Namakkal. Trainings on vermicompost preparation & production of mass bio

control agents was given to 25 farmers of Pudu Vazhvu for 3 days from 15.02.2017 to 17.02.2017.

### Training with line departments

KVK Namakkal has organized 12 non funded trainings with agriculture & horticulture line departments. A total of 394 farmers were participated.

The major themes on roof top gardening, kitchen gardening, canopy management in horticulture crops, integrated pest & disease management in paddy & pulses, integrated crop management in watermelon were taught at farmer's field & KVK.

### On campus training programme

From January 2017 to March 2017, eighteen on campus trainings were conducted in KVK, Namakkal. A total of 477 farmers were benefitted by these training



programmes. Micro irrigation technology, vermicomposting, role of organic manures in soil fertility, problematic soil management, cultivation techniques in cash crops, climate based pest control measures, integrated pest & disease management, rabbit & sheep rearing, concentrate feed preparation, fish farming & preparation of value added fish products were covered during course of the training programme.

### Off campus training programme



From January 2017 to March 2017, 5 off campus trainings were conducted in farmer's field to disseminate the technologies related to Agriculture, Horticulture, Animal Husbandry and Fisheries fields. Totally 150 farmers were benefitted and learnt season oriented technologies in agriculture and allied sector.

### Farmers field school

KVK, Namakkal has conducted a Farmers Field School on Clean Milk Production at Samayasangili village, Pallipalayam block, Namakkal district with 25 farmers. Totally 6



classes were handled with practical skills. Training on dentition and body weight measurement in dairy cattle, housing and nutrition management, disease management,

clean milk production & milk processing, sub clinical mastitis detection and milk products preparation were covered in the FFS during this quarter.



### Zonal workshop



Two monthly zonal workshops were held on 10.01.2017 & 16.02.2017 for ADA's & AO's of Namakkal district. Totally 100 extension officials were participated.

Dr. S. Alagudurai, Dr. C. Sharmila Bharathi, Th. C. Sankar, & Dr. S. Sathya were delivered need based & season oriented technical lectures to the extension officials. Major problems occurred in different blocks were discussed and plan of action for next 2017-18 prepared.

### Exhibitions conducted/ participated

KVK, Namakkal has organized an exhibition at Pallamparai village during the campaign on mango cultivation techniques on 31.01.2017. Inputs required for cultivation as bio inputs, mango booster, sticky traps, micronutrient mixture were displayed in the event by KVK. Private companies related to bio inputs, bio pesticides, pesticides and farm implements were also invited to exhibit their products in the event. One more exhibition was arranged in KVK, Namakkal during tenth SAC meeting held on 14.02.2017. Farmers were exhibited the successful interventions of KVK implemented in OFT & FLD programmes during 2015-16. In addition, mushroom model, panchakaviya unit & brooder for chicks were also exhibited. Totally 200 farmers & extensional personnel were participated & benefitted.



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

284 soil samples & 51 water samples analyzed and soil test based integrated fertilizer recommendation suggested to farmers for all crops.

Based on the quality of irrigation water, suitable crops recommended to farmers. Totally 1703 soil health cards issued to farmers with soil test based integrated fertilizer recommendation.



### Award received by KVK farmer



Th. P. Allimuthu, a progressive horticulture farmer awarded the prestigious “IARI Innovative Farmer Award 2017” of Indian Agricultural Research Institute (IARI), New Delhi by Union Agriculture Minister Th. Radha Mohan Singh in the valedictory ceremony of the National Agriculture Fair 2017 titled “Krishi Unnati 2017” held at IARI, New Delhi from 15<sup>th</sup> to 17<sup>th</sup> March 2017. Th. P. Allimuthu hails from Minnakkal village of Namakkal District of Tamil Nadu and the award is in recognition of his yeoman service in promoting year round mango production through different varieties grafted / Top worked on 10,200 mango trees across Tamil Nadu and Andhra Pradesh with the farm size range of one cent to one acre to augment the mango production in the country.

### Exposure visit

Six farmers from NICRA village of Vadavathur and Jambumadai belongs to Namakkal District were attended an exposure visit to Agri Science Congress 2017 - Climate Smart Agriculture on 20.02.2017, which was held at University of Agricultural Science, Bengaluru, GVKV campus. Dr. C. Sharmila Bharathi, Assistant Professor (Horticulture) Dr. K. Sathis Kumar, Senior Research Fellow, NICRA Scheme and Th. R. Prabhakaran, Field Assistant, NICRA Scheme were also participated. 20 farmers from Sri Vinayaga Agriculture & Horticulture Farmers Club from Thanneer Pandhal Kaadu, Namakkal district were taken for an exposure visit to Agricultural Machinery and Technology Demonstration at Tamil Nadu Agricultural University, Coimbatore on 10.02.2017 by KVK, Namakkal.



### Case study on barnyard millet cultivation through transplanting techniques:

Background :

Th. S. Thillaiyambalam, S/o. Shinnandaver, P.Velur, Namakkal district has 15 acres of land and cultivate Paddy, Sugarcane, Coconut and fodder crops. In addition he has dairy and goat animals.



He underwent training on minor millet cultivation and its value addition at this kendra on 07.06.2016. Through FLD programme two kgs of Barnyard millet seed CO(KV).2 variety has been provided to him for demonstration. He cultivated Barnyard millet in an area of 0.6 acre during Kharif 2016 season under irrigated condition.

### Interventions adopted :

- D Seed treated with bio fertilizer @ 4g / kg of seeds.
- D Sown improved variety CO(KV). 2 in nursery.
- D Transplanted 15 days old seedling at 30 x 15 cm spacing.
- D Followed needed plant protection measures.
- D Harvested at right time and processed for marketing.

### Impact :

Through transplanting techniques the following growth and yield parameters were observed


- D Plant height : 80 - 120 cm
- D Panicle length : 30 cm
- D Panicle weight : 10.5 gm
- D Grain yield : 2750kg / ha



Th. S. Thillaiyambalam, sold processed grain @ Rs. 90/ kg and realized the net profit of 32,500/ 1 ha. He also recorded yield increase over check (local variety-direct sown) of 22.95%.

Barnyard millet cultivation and value addition assisted an additional income for him. Awareness created among fellow farmers towards millets cultivation after getting exposure to his field through field day.

## Success story

1.	Name & Address of the farmer	 <p><b>Mr. P. Manoharan</b> Mallur, Salem District Cell : 90035 58906</p>
2.	Type of farm & stock size	Native chicken rearing 2003 after getting training in KVK, Namakkal
3.	Income generated / annum	Rs.1,90,000 (Net income)
4.	Innovative package of practice adopted by the farmer	<ul style="list-style-type: none"> <li>❖ Hatching of eggs using incubator</li> <li>❖ Cage system of rearing chicks up to 1 month</li> <li>❖ Adoption of nipple drinker and feeder in free range system</li> <li>❖ Cultivation of mixed fodder and using poultry mini chaff cutter</li> </ul>
5.	Technologies Practiced	<ul style="list-style-type: none"> <li>❖ Regular vaccination &amp; deworming</li> <li>❖ Feeding balanced concentrate feed for better weight gain</li> </ul>
6.	Strategies adopted for control of disease	Adoption of scientific technologies in prevention of diseases and effective bio security measures for farm cleanliness
7.	Number of employment created	3 persons employed in the farm all over the year (2 family and 1 hired labourers)
8.	Tie up with other agencies	TANUVAS and State Agriculture Department
9.	Economic empowerment of the farmer	He earned the profit of 1.90 lakhs per annum

### FOR MORE DETAILS PLEASE CONTACT

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To

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

\_\_\_\_\_

From \_\_\_\_\_

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