



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



## NEWS LETTER

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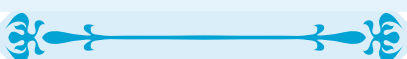
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ICAR-Krishi Vigyan Kendra, Namakkal, is a centre for transfer of technologies from lab to various groups like Farming Community, Self Help Groups, Rural Youths, Extension Personnel etc., through organizing various events like Trainings, On Farm Testing, Front Line Demonstrations and Advisory services regularly. The activities and the various demonstration units established with prominence to integrate Agriculture, Horticulture, Animal Husbandry and Fisheries enterprises focused year round income to the farming community. Due to the failure of monsoon the normal rainfall couldn't be achieved in Namakkal district. Hence most of the activities carried out by KVK, Namakkal during the quarter were focused on contingency measures and drought management in crops. In addition to that, important events like World Soil health day, Rabi campaign and Jai Kisan Jai Vigyan Diwas were also celebrated to inculcate new technologies that fetch maximum profit from the field. The glimpses of the same is presented hereunder.

### World Soil Health Day & Rabi Awareness Programme

To emphasis the importance of soil health, routine soil test based nutrients application & to adopt the latest technologies in crop production & animal husbandry, World Soil Health Day & Rabi Awareness Programme cum exhibition was conducted during Rabi season at Vadavathur village, Erumaipatti block, Namakkal district on 05.12.2016 (Monday-World Soil Day). Totally 390 farmers were participated & benefitted in the event (Male: 250 nos. & Female: 140 nos.). The extension officials of 41 nos. (Male: 32 nos. & Female: 9 nos.) from line departments were also participated. Dr. R. Kaliyaraj, Joint Director of Agriculture, Namakkal district inaugurated the exhibition and awareness programme & delivered the presidential address. Dr. D. Raja, Professor (Agronomy), Tapioca & Castor Research Station, Yethapur, Salem District was participated, felicitated the event & delivered a special address on organic manuring for sustainability of organic carbon in soil, soil test based fertilizer application & foliar spraying of PPFM for drought management. Mr. R. Sreenivasan, Regional Joint Director of Animal Husbandry, Namakkal district has participated & explained about the schemes & activities being carried out in the Animal Husbandry Department for benefit of farmers & role of application of farm yard manure for soil fertility management. Mrs. P. Manimegalai, Assistant Director Horticulture, Erumaipatti block, Namakkal district emphasized to conserve soil health by proper nutrient



management & to enroll farmers in the crop insurance scheme. Thematic pamphlet on preparation of bio control agents for pest control was released during the programme. Soil health cards (156 nos.) were issued to farmers during the programme. An exhibition was arranged with 20 stalls for the benefit of farming community. The programme was initiated with welcome address given by Dr. N. Akila, Senior Scientist & Head & concluded with vote of thanks by Dr. S. Alagudurai, Assistant Professor, KVK, Namakkal.

### **Jai Kisan Jai Vigyan Diwas- Technology week celebration**

To celebrate Jai Kisan Jai Vigyan Diwas, various programmes were conducted at KVK, Namakkal & farmers field from 23.12.2016 to 29.12.2016. Awareness programme on latest production techniques in agriculture crops, drip irrigation techniques, protray technology for nursery production, importance of soil & water testing, nutrient status of Namakkal district, slatted floor goat farming & native chicken rearing, clean milk production, fish farming in Namakkal district were conducted to farmers. Scientific technologies like seed treatment, enriched manure preparation & oral pellet vaccination were also demonstrated to the farming community by practice themselves at farm holdings.



### **Swachhta Pakhwada Awareness campaign**



A special programme on Swachhta Pakhwada Awareness campaign was conducted at KVK, Namakkal & farmer's field from 16.10.2016 to 31.10.2016 to disseminate the technologies for recycling of plant residues after the harvest of produce in pit & heap method, separation of degradable, non degradable households wastes & their composting, production of vermicompost from the farm residues & animal wastes through Vermicomposting technology & tree plantation techniques.

### **Vice Chancellor, TANUVAS-Review Meeting**

The Vice Chancellor review meeting for 16 peripheral centres of TANUVAS was conducted at KVK, Namakkal on 29.12.2016 to review the activities carried out for the period from August 2015 to March 2016 & April 2016 to November 2016 by the honorable Vice Chancellor and Director of Extension Education, TANUVAS, Chennai. The constraints, growth and future plan were discussed among the faculties in the review meeting. The zone wise problem identification exercise was carried out in the review.



### **Special Dignitaries Visit**



Dr. M.B. Chetti, Assistant Director General, Human Resources Department, ICAR, New Delhi has visited KVK and Community Radio Station, Namakkal on 15.11.2016 interacted with faculty members of KVK, Namakkal.

Dr. P. Mathiyalagan, Registrar, TANUVAS, Chennai visited KVK, Namakkal on 20.12.2016 and discussed about the various activities carried out by KVK, Namakkal and viewed the demo and instructional models and Community Radio Station.

### **Schemes:**

#### **National Initiative on Climate Resilient Agriculture (NICRA)**

Works on Natural Resource Management, crop production, livestock & fisheries modules & custom hiring unit are being in operation under NICRA scheme for the year 2016-17.

## NRM module

Desilting was carried out in Ponnagkannikutti (23 x 15 x 6.5ft), the centre catchment area for the NICRA village.

## Crop module

Small onion was sown in rabi season in 50 acres. Now crop is in vegetative phase. 156 soil samples were collected & 156 soil health cards issued so far. Two groups were identified & trained to prepare panchakaviya for self-remuneration at village level. 300 litres of Panchakaviya was prepared by 2 self-employed groups and sold.

## Livestock & fisheries module

Deworming and vaccination of livestock (138 live stock) and poultry birds (186 desi birds) was carried out at village level. Distributed poultry night Shelters to 10 farmers. Artificial Insemination of dairy cattle with Tharparkar semen was done in dairy animals of 65 farmers. CoFS29 seeds were distributed to 40 farmers to establish year round fodder production at farmers fields. Fingerlings (Gift Tilapia) were stocked in 5 farm ponds.

## Custom hiring module

The details of implements hired out is as follows

Name of Intervention undertaken	No. of Units	Running Hours	No. of Farmers Covered / Benefitted	Amount Realised
Custom hiring for timely operations				
i. Spring Cultivator	1	40.45	34	24,270.00
ii. Rotavator	1	7.45	10	5,960.00
iii. Tipper	1	62 trip	9	12,400.00



## NFSM-National Food Security Mission

NFSM Cluster FLD was implemented in Nochipatti village of Pudukhathiram block, Namakkal district under Kharif season. Green gram (CO 8) was harvested and the average yield obtained in demo plot was 692 kg/ha with net return of Rs. 24357/ha. Black gram was sown under rabi at Kokali village of Elachipalayam Block.



## NMOOP - National mission on oilseeds & oil palm

NMOOP cluster FLD was implemented in R. Pudupatty, Peramandampalayam & Patttanam villages of Namagiripet, Mohanur & Rasipuram blocks respectively under Kharif season 2016 during the month of July 2016. Groundnut (CO 6 & CO 7) crops were harvested and the average yield obtained in demo plot was 1164 kg/ha with net return of Rs. 35943/ha. Groundnut was sown under Rabi season in Moolappallipatty village of Namagiripet Block.



### OFTs & FLDs for the year 2016-17

S. No.	Name of the Programme	Crop/ Enterprise	Title of OFT	Activities carried out
1.	<b>On Farm Trial</b>	Red gram (2 ha)	Assessing the performance of red gram varieties for rainfed condition	Red gram varieties are in maturity phase. Regular observations of plant height & no of branches were taken at different growth stages.
2.		Cotton (4 ha)	Assessment of suitable management techniques for emerging in disease of para wilt in cotton	Crop is in boll formation stage. Regular growth observations are taken at different growth stages.
3.		Groundnut (2 ha)	Assessment of suitable disease management techniques in groundnut	Sowing taken only in rabi season. Now crop is in vegetative stage.
4.		Tomato (1.2 ha)	Assessment of simplified crop production by Nutripellet Pack technology in tomato cultivation	Transplanting of tomato seedlings from portrays was carried out in main field. Also placed Nutripellet Pack in the soil near to the seedling. Soil & water health cards distributed to farmers
5.		Bellary Onion (1 ha)	Assessing the performance of bellary onion varieties	Bellary onion is in harvesting phase. Regular growth attributes are recorded at different growth stages.
6.		Dairy Cattle (40 Animals)	Enhancing pregnancy rate by using TRIU-B to augment fertility in dairy cattle	Mineral mixture and Dewormer were distributed to the beneficiaries. Vaginal sponge and TRIUB inserted in 40 dairy animals for estrous synchronization.
7.	<b>Front Line Demonstration</b>	Barnyard millet (8 ha)	Demonstration of Barnyard millet (Kudiraivali) variety CO(KV)2 with ICM practices	Barnyard varieties are in maturity phase. No of tillers, plant height, panicle length were measured.
8.		Maize (0.6 ha)	Demonstration of simplified crop production by nutriseed pack technology in maize (hybrid co6)	Beneficiaries were selected. Soil samples collected & analyzed soil properties.
9.		Tapioca (6 ha)	Spiraling whitefly management in tapioca	Crop is in vegetative stage.
10.		Banana (4 ha)	Demonstration of ICM in Banana	Crop is in 9 month old. Growth & yield attributes were taken at regular intervals
11.		Small Onion (10 ha)	Demonstration on ICM Practices in Small onion.	Bio control agents & biofertilizers were applied basally. Crop is in germination phase.

12.	Desi Bird Farming (450 Birds)	Enhancing growth rate and productivity of Desi chicken by feeding azolla with shadenet covering	Method demonstration of azolla cultivation was carried out , growth rate of azolla and its feeding to poultry birds is being monitored at regular intervals.
13.	Mixed fodder cultivation 2.5-5 acres	Establishment of mixed fodder cultivation model to supplement green fodder to livestock	Beneficiaries were selected. Mixed fodder cultivation will be established at farmer's field.
14.	Fisheries (2 ha)	Demonstration of Jayanti Rohu IFS with Poultry farming in Namakkal district	Water qualities (temperature, DO, Phosphate, ammonia, nitrate & pH) are monitored at 15 days interval. Fingerlings (20000 fingerlings/5ponds) were stocked.
15.	Fisheries (0.1 ha)	Popularization of Pangasius fish culture	Water qualities (temperature, DO, Phosphate, ammonia, nitrate & pH) are monitored at 15 days interval. Fingerlings (6000 fingerlings/3ponds) were stocked.



### Sponsored training



KVK, Namakkal has conducted 11 various on campus & off campus funded trainings. Of which, 6 trainings were funded by ATMA to 200 AMMA Farm women group members for “Native chicken rearing, clean milk production, integrated livestock farming & goat rearing techniques”. Under ATMA Interstate training programme for integrated livestock farming, 36 interstate farmers from Pondicherry were participated & benefitted. 20 farmers from Namakkal and Karur districts were taken to various livestock farms, institutions at Kerala from

05.10.2016 to 07.10.2016 by KVK, Namakkal. Nursery production techniques of tree saplings was given to 17 beneficiaries under Pudu vazhu project, Namakkal district. Another training on Rainfed Agriculture and Integrated Farming System was funded by Department of Agriculture, Kollihills, Namakkal & 49 farmers were benefitted. Department of Horticulture and Plantation crops, Namakkal under NADP – Hi Tech Horticulture Scheme 2016-17 was funded for another training on Hi tech production techniques for horticultural crops to 100 farmers.

### Training with line departments

Training on Integrated pest & disease management for paddy, maize, groundnut, storage pest management & native chicken rearing trainings were conducted with line departments to equip the farmers towards adoption of scientific technologies in better way. In this programme a total of 266 farmers were benefitted. Four trainings on priceless goat/sheep farming were conducted to 203 farmers in different blocks of Namakkal district to encourage the farmers to start goat and sheep farming.



## On & Off Campus training programme

Sixteen on campus training in Agriculture, Horticulture, Animal Husbandry and Fisheries fields were conducted by KVK, Namakkal. Totally 664 farmers were participated from various districts in Tamil Nadu. Ground nut, sesamum cultivation techniques, tapioca cultivation techniques, integrated crop management techniques for banana & bellary onion, integrated nutrient management practices, soil fertility management, identification of nutrient deficiency symptoms in plants & their corrective measures, integrated pest management practice, spiraling white fly & mealy bug management, native chicken rearing, white pig rearing, concentrated feed preparation, integrated fish farming and shrimp culture technology were taught during the course of training.



From October 2016 to December 2016, 34 off campus training was conducted in farmer's field to disseminate the technologies related to Agriculture, Horticulture, Animal Husbandry and Fisheries fields. Totally 901 farmers were benefitted and learnt season oriented technologies in agriculture and allied sector.



## Zonal workshop

Monthly Zonal Workshop was conducted at this Kendra on 14.10.2016, 16.11.2016 & 16.12.2016 for ADA's & AO's of the state department of agriculture. Totally 112 nos. extension officials were participated. Dr. N. Akila, Dr. S. Alagudurai, Mr. C. Sankar & Dr. S. Sathya given need based & season oriented technical lectures to the extension officials. The problems in different blocks were discussed and plan of action prepared.

## Exhibitions conducted/ participated



Namakkal KVK has organized an exhibition at Vadavathur village during world soil health day & rabi awareness campaign on 05.12.2016. Totally 20 stalls on soil types, various kinds of organic & inorganic manures, nutrient mixtures, short duration varieties of pulse & groundnut, vermicomposting models, varieties of vegetable seeds, planting materials of fruit crops, nutrient deficiency symptoms in horticultural crops, growth boosters, coconut pheromone traps, various oils for bio control means, sticky traps, cage system of desi bird farming, NARI Suvarna ram (improved breed), feed & nutrient supplements for livestock & poultry, different strains of fishes, value added millet products, agricultural machineries, central & state government schemes of line departments were exhibited on that programme for the benefit of farming community. Another exhibition was conducted at Thoppapatti village on theme of plant health management in cotton crop. Organic & chemical way of pest control products were displayed in the event.

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

315 soil samples and 34 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 331 soil health cards issued to farmers with soil test based integrated fertilizer recommendation. According to soil test values, available nitrogen, zinc, boron were deficient in 76% of soil samples.



## Publications / Messages

15 messages and articles were published in magazines and Tamil dailies. Also 25 advices given to farmers through Agromet field unit, VC& RI campus, Namakkal.

## Exposure visit to KVK, Namakkal

A total of 582 members including farmers, rural youths, farm women, students from various parts of Tamil Nadu have visited the demo and instructional units available in this KVK, Namakkal during the period from October 2016 to December 2016. College & school students presented various recordings like songs, proverbs, stories, medical tips & opinion about social issues to community radio station.



## Animal Health Camp

S.No.	Date	Place	No. Animals Treated / Vaccinated / Dewormed		
			Goat / Sheep	Cattle	Poultry
1.	17.10.2016	Vadavathur	100	-	-
2.	11.11.2016	Thangam Nagar, Vadavathur	404	98	-
3.	16.12.2016	Jambumadai	109	143	191
4.	21.12.2016	Oruvanthur	10	-	-

## Impact of training programme

### New Farms started

S.No.	Name of the Farm	Name and Address	Farm Size
1.	Curry Leaf	Mr. K. Sengottaiyan Sevagoundampalayam, Namakkal.	2 acres High density planting in curry leaf (variety senkambu) under drip
2.	Mango Orchard	Mr. M. Prabath Oruvanthur, Namakkal.	2 acres (Banganapalli and Sendura).
3.	Dairy Farm	Mr. A. Tamilarasu Kelsathanbur, Namakkal.	20 animals
4.		Mr. P. Suresh Akkamapalayam, Namakkal.	10 animals

## Diagnostic field visit

KVK, Namakkal has organized 16 diagnostic field visits, identified the problems in the existing crops and suggested remedial measures to correct the problems in the farmers field. Incidence of bacterial leaf blight, fruit borer attack, thrips and mite attack, tip drying, nutrient deficiency and fish mortality were the common problems identified during the period.




## Village adoption



For the year 2016-17, two villages namely permandampalayam & anniyapuram were selected & adopted by KVK, Namakkal. In this adopted village 1 FLD and 2 OFT programmes are being implemented and observations being measured at regular intervals. Off campus training on Importance of azolla feeding was conducted at Marakadu on 17.11.2016 for FLD farmers, Infertility camp was also conducted at Oruvanthur on 21.12.2016.

## Success story

1.	Name & Address of the farmer	 <p><b>Thiru. P. MUTHUSAMY</b> Unjapapalyam , Paramathy velur (TK), Namakkal District. Cell : 99524 77577</p>
2.	Type of farm & stock size	Integrated Farming System in 5 acres (Field crops, Coconut, Dairy, Vegetable, Greens, Fodder seed/setts production, Vermicomposting) Started during the year 2007 after getting training at KVK, Namakkal.
3.	Income generated / annum	Rs. 8,28,000/- (Profit)
4.	Innovative package of practice adopted by the farmer	<ul style="list-style-type: none"> <li>❖ Intensive goat rearing (Slated floor goat farming, Kids management, Vaccination, Feeding management)</li> <li>❖ Dairy farming (Housing, Feeding, Clean milk production &amp; Disease management)</li> <li>❖ Fodder seed/setts production (Cumbu Napier hybrid grass-CO.4, Fodder sorghum COFS.29, Hedge Lucerne)</li> <li>❖ Vermicompost production</li> </ul>
5.	Technologies Practiced	<ul style="list-style-type: none"> <li>❖ Slated floor goat rearing, Vaccination to kids, flushing management, Salt lick</li> <li>❖ Loose house system of dairy farming</li> <li>❖ Mineral supplementation to dairy animal through mineral mixture application.</li> <li>❖ Year round nutritious fodder supplementation (Cumbu Napier hybrid grass, Fodder sorghum COFS.29, Hedge Lucerne)</li> <li>❖ Chaffing of green fodder through chaff cutter.</li> <li>❖ Fodder seed/setts production (Cumbu Napier hybrid grass-CO.4, Fodder sorghum COFS.29, Hedge Lucerne)</li> <li>❖ Recycling of farm wastes into vermicompost</li> </ul>
6.	Strategies adopted for control of disease	Adoption of scientific technologies in prevention of diseases and cleanliness measurement of livestock farm, vermicompost & fodder seed production plot.
7.	Number of employment created	7 hired labourers employed in the farm throughout the year
8.	Tie up with other agencies	State Agriculture Department and TANUVAS
9.	Economic empowerment of the farmer	He earned profit of 8.0 lakhs per annum in 5 acres by practicing IFS system of farming.

### FOR MORE DETAILS PLEASE CONTACT

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### **Krishi Vigyan Kendra, Namakkal - 637 002**

To

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

\_\_\_\_\_

From \_\_\_\_\_

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