



TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

DIRECTORATE OF EXTENSION EDUCATION, CHENNAI

ICAR-KRISHI VIGYAN KENDRA, NAMAKKAL - 637 002

Vol. 3

NEWS LETTER

No. 3

OCTOBER - DECEMBER 2018

Chief Editor

Dr. N.K. Sudeep Kumar,
Director of Extension Education

Editor

Dr. N. Akila
Senior Scientist &
Professor and Head

Associate Editor

Dr. S. Sathya
Scientist / Assistant Professor
(Soil Science & Agri. Chemistry)

Editorial Members

Dr. C. Sharmila Bharathi
Dr. P. Murugan
Dr. K.R. Pushpanathan
Dr. C. Kathirvelan
Dr. S. Paulpandi
Dr. M. Daisy



Krishi Vigyan Kendra, Namakkal, 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 Testings, 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, field days and camps during the period. The summary of the works done in October to December 2018 is presented hereunder.

Krishi Mela 2018

KVK, Namakkal and ATMA, Namakkal jointly organized three days seminar cum exhibition - Krishi Mela 2018 with the concept of doubling the farmers income at Paavai Mahal, Namakkal from 26.12.18 to 28.12.2018. Mrs. M. Asia Mariam, District Collector, Namakkal inaugurated the programme and interacted with farmers. Dr. B. Mohan, Dean, VC&RI, Namakkal, Dr. N.O. Gopal, Dean, PGP College of Agricultural Sciences, Namakkal and Th. J. Sekar, Joint Director of Agriculture, Namakkal were felicitated the programme. A total of 55 fully furnished stalls with recent technologies and products of TANUVAS, KVK, Veterinary College, Line departments, farmer entrepreneurs, success farmers, FPOs and private agro service companies were exhibited in the event. In the seminar, Dr. S. Joshpin, Entrepreneur, VBS Honey farm, Madurai delivered technical lecture on honey bee rearing techniques, Th. R. Sivalingam, small millets farmer producer organization, Dharmapuri delivered role of FPOs in economic development of farming community, Dr. E. Somasundaram, Professor & Head, Dept. of Sustainable Organic Agriculture delivered organic agriculture & IFS, Dr. R.P. Aravind Babu, Assistant Professor (TRVB), TANUVAS, Chennai delivered recent techniques in livestock production, Tmt. P. Jenifer, Deputy Director of Fisheries, Dharmapuri delivered suitable fish farming for Namakkal district, Dr. S. Alagar, Assistant Professor (Agrl. Entomology), Coconut Research Station, TNAU, Aliyar Nagar delivered emerging pest and diseases management in coconut production, Dr. A. Natarajan, Professor & Head, VC&RI, Namakkal delivered weather based agro-advisory services.



Fall Army Worm in maize, Castor as Alternate crop for groundnut, livestock diseases management and fish varieties were topics discussed by Professors from

TNAU & TANUVAS, Deputy Director (Fisheries) and KVK Scientists with farmers during farmers - scientist interaction meet and various doubts raised by farmers were answered.

During the valedictory session, Dr. V. Saroja, Honourable Minister for Social Welfare and Noon Meal scheme delivered chief guest address and honored ten best farmers of KVK, Namakkal. Dr. N.K. Sudeep Kumar, Director of Extension Education, TANUVAS, Chennai presided over the program and Joint Director, Agriculture, Namakkal felicitated the event. Totally 2635 farmers, students and extension officials participated and benefitted the event.

World Soil Health Day 2018

World soil health day was celebrated on 05.12.2018 at KVK, Namakkal. Tmt. M. Asia Mariam, District collector inaugurated the exhibition, presided over the programme and distributed soil and water health cards to farmers. Dr. N. Akila, Senior Scientist and Head, welcomed the gathering and briefed the purpose of celebrating World Soil Health day every year. Th. J. Sekar, Joint Director of Agriculture, Th. P. Asokan, Deputy Director of Agriculture, Tmt. P. Kavitha, Assistant Director of Agriculture, Namakkal felicitated the event and insisted to adopt soil management practices to achieve sustainable soil health. The farmers Th. N. Govindasamy, Namagiripettai and Th. R. Kuppusamy, Thiruchengode who adopted the soil test based fertilizer application in their field shared their experiences with other farmers. The farmers were taught about the importance of soil and water testing and soil fertility management techniques. Soil sampling procedures and plant residue composting techniques demonstrated and farmers were exposed to green manuring fields. Thematic exhibition on soil fertility management techniques was arranged by KVK along with VK stalls, Indian Potash Private Limited displayed different fertilizer products and Magizh Bio Nature care products displayed poor quality water purification unit in the exhibition. Totally 237 farmers were participated and benefited.



MANAGE Hyderabad sponsored skill training of rural youth (STRY) on "Scientific Goat Farming"

M A N A G E

Hyderabad sponsored six days Skill training programme for rural youth (STRY) on "Scientific Goat Farming" was conducted at KVK campus from 8.10.18 to 13.10.18. During the first day lectures on goat breeds, selection of animal & dentition and ageing of animal was delivered to 28 trainees. Skill training on identification of goat breeds and calculation of age in goats also imparted. Technical lectures on soil fertility improvement for fodder production, compost preparation using animal waste was delivered and demonstrated scientific method of goat rearing at ILFSC, VC&RI, Namakkal on second day of training. On the third day programme, the topics on scientific feeding management, health care technologies, green fodder production techniques, azolla cultivation method and new born kids management were dealt. On the fourth day, the topics on disease management, parasitic diseases affecting goat and its prevention measure, ethno veterinary first aid for goat ailments were dealt. Skill training and hands on experience on deworming was provided. On the fifth day the topics on financial solutions and schemes for self employment, State Animal Husbandry department schemes in 2018, Integrated Farming System along with goats were dealt. On last day the topics on new born kids management, value added meat product preparation and animal waste recycling were dealt. Skill training on concentrate feed preparation and meat product preparation was provided. Valedictory function conducted, distributed scientific goat rearing books and mineral blocks along with training participation certificate.



Rashtriya Mahila Kisan Diwas 2018

KVK, Namakkal has organized Rashtriya Mahila Kisan Diwas 2018 programme at DFI Village - Moolakadu on 15.10.18 with 150 farm women.



During the programme 12 farm women were honored for their diligent services in agriculture and allied sector. They shared their success experience with others and the same has been recorded by Doordharshan. Distributed four wet grinding machine, two laser spray irrigation system & a heifer under convergence to a total of seven deserted and economically disadvantaged farm women for their livelihood security. Ms. C. Malathi, Project Director, DRDA, Th. E. Pulla Rao, AGM, Union Bank of India, Salem Region, Mrs. B. Nirmala, Proprietor, Bhadra Agencies, Mrs. Kamalaveni Sathiyamoorthi, Hotel Sanu International were participated as special guests and interacted with women farmers.

The Project Director motivated the farm women to take up the schemes of DRDA. The AGM encouraged the farm women to form into groups and take up women friendly entrepreneurial activities by availing credit from banks for their sustainable livelihood. Exhibition on the theme of Doubling Farmers Income was arranged for the benefit of farm women.

World Egg Day

KVK, Namakkal celebrated world egg day 2018 on 12.10.2018. On part of this, importance of egg, nutritional aspect of egg was discussed, distributed egg products to trainees and conducted training on desi chicken rearing for farmers and rural youth. Scientific technologies in feeding management and hatchery management imparted to the farmers. A total of 63 participants attended the programme.



World Rabies Day 2018

KVK, Namakkal celebrated world rabies day 2018 at Jambumadai village on 1.10.18 to create awareness on rabies disease transmission to human beings and vaccination for dogs and post bite vaccination for human to achieve WHO vision on rabies free world by



2030. A total of 60 farm women and farmers participated.

Special training on desi chicken rearing

KVK, Namakkal has conducted training programme on desi chicken rearing under the sponsorship of the scheme on, GOI-Dept. of Science & Technology, "Production of health promoting eggs from backyard poultry in Namakkal district" by the Department of Poultry Science, VC&RI, Namakkal on 22.11.18 & 20.12.18 for 55 participants. In this programme, hands on training, demonstration on feed preparation & vaccination conducted. Visit to hatchery unit and poultry farms of VC & RI, Namakkal was made.



Village adoption for Doubling the farmers income (DFI villages)

The following programmes were conducted by KVK, Namakkal at the DFI villages.

A w a r e n e s s programme - KVK, Namakkal has organized an awareness programme on Mission on Sustainable Dryland Agriculture Scheme and Bio gas production technologies at DFI Village - Ondikadai on 28.11.18 with 82 farmers. Dr. S. Pugalendhi, Professor & Head, Department of Bio Energy, TNAU, Coimbatore has invited to deliver a guest lecture on Importance, various biogas production technology & financial assistance involved in various schemes and also interacted with farmers. Eleven farmers from Ondikadai village registered for installation of biogas unit under the convergence mode with Dept. of Bioenergy, TNAU.



Demonstrations by KVK, Namakkal - Demonstration of high yielding groundnut varieties (GJG-9) and ICM practices was conducted at Moolakkadu under CFLD at Kharif 2018-19. Groundnut variety (GJG-9) recorded yield of 1252 kg/ha, Net Return Rs.46388/ha with BC ratio of 2.29.

Demonstration on banana – cowpea intercropping with ICM practice at Ganapathipalayam, Demonstration of ICM Practices in Bellary onion var.Arka Bheem Demonstration of ICM Practices in French bean var. Arka Sharath at Ondikkadai, Demonstrating Moringa (PKM1/2) as a substitute for protein forage in Large Ruminants Feeding at Ganapathipalayam, Demonstration of Mulberry leaves for better weight gain in Small Ruminant production system at Moolakkadu, Demonstration of Mastiguard to prevent Mastitis in dairy animals & Demonstration of EVM for treatment of Repeat breeding in dairy animals at Moolakkadu & Ondikkadai is in progress.

Assessment - Assessment of suitable composting culture for waste decomposition at Ganapathipalayam & Moolakkadu villages, Ribbed gourd varietal assessment & Assessment of Ethno Veterinary treatment for control of Endo parasites in Small ruminant at Ondikkadai & Moolakkadu villages are in progress.

IFS model - One IFS model was established in 1 ha at Moolakkadu. Fodder bank established with different green fodder seeds, honey bee box supplied through convergence with Agri, Dept., technologies demonstrated to prepare liquid biocontrol agents, livestock farming and feed & disease management.

Soil & water analysis - 51 soil health cards & 45 water health cards issued along with recommendation both at Ondikkadai & Moolakkadu villages.

Farmer Field school - FFS on Pesticide residue free chilli production conducted at Ondikkadai. So far seven classes conducted.

Castor Field Day

KVK Namakkal has conducted Field day on Assessment of castor hybrids (DCH177, DCH517 & YRCH-1) suitable for Namakkal District at Kokkalai village on 28.11.18. Based on the farmers feedback and physical observation, YRCH1 and DCH519 recorded more spikes, capsules and yield. The castor variety DCH 519 recorded highest yield of 1325 kg/ha followed by



YRCH 1 recorded 1305 kg/ha and DCH 177 recorded 1024 kg/ha. Dr. N. Akila, Senior Scientist and Head, KVK, Namakkal, Th. P. Ashokan, Deputy Director, Dept. of Agriculture, Namakkal, Dr. Kathirvelan, Scientist, Tapioca and Castor Research station, TNAU and Dr. P. Murugan, Assistant Professor, KVK, Namakkal participated and enlightened special features of castor hybrids, package of practices, pest management and safe handling of pesticides.

Vigilance Awareness Week

Vigilance Awareness Week was celebrated from 29.10.18 to 03.11.2018 with theme of Eradicate Corruption - Build a New India. Integrity pledge was taken and oratory competition was conducted among the farmers. Farmers who have delivered thought provoking speech were honoured at end of the programmes.



World Fisheries Day

World fisheries day 2018 on 21.11.18 was celebrated at KVK premises, on part of this the growth of aquaculture, small scale capture fisheries, fish diversity, health of water bodies including lakes, pond and river and role of fish in fighting hunger and malnutrition were taught. A total of 76 participants attended the programme.



On campus training programme

From October 2018 to December 2018, nineteen on campus trainings were conducted at KVK, Namakkal with 688 farmers. Integrated farming system, vermicompost production technologies, high density planting techniques, fruits and vegetable cultivation practices, soil fertility improvement, composting



technology, integrated nutrient management, IPDM in tapioca and vegetable crops, sheep rearing, desi chicken rearing, fish and shrimp disease management, seabass production, mud crab production technologies were the major areas covered in these training programmes.

Off campus training programme

Based on the need of farmers, location specific thirteen off campus trainings were conducted at farmer's field to propagate the technologies related to Agriculture, Horticulture, Animal Husbandry and Fisheries sectors with 422 farmers.



Zonal workshop

Three monthly zonal workshops for agricultural department officials were conducted on 09.10.18, 13.11.18 and 11.12.18 at KVK, Namakkal. A total of 106 extension officials were participated. Major field problem in different blocks of Namakkal district were discussed and suggestions were recommended.



Soil & water analysis & issue of soil health cards

Since October to December 2018, 104 soil samples & 58 water samples received and tested. Totally 104 soil health cards and 98 water health cards issued to farmers with soil test based integrated fertilizer recommendation. To improve the fertility status of soil, farmers were advised to practice integrated nutrient management practice.



Exposure visit

A total of 819 farmers and students were received exposure to this Kendra and got technical and practical guidance about the technologies available in instructional and demo units. As a cross learning

programme, KVK Namakkal has taken 38 progressive farmers from NICRA villages to an one day exposure visit to Mechari Sheep Research Station, Pottaneri to gain new knowledge in sheep rearing.



Interstate exposure visit

Four farmers at Namakkal district were taken to India International Science Festival conducted at Lucknow, Uttar Pradesh from 5.10.18 to 7.10.18. Seminar and exhibition arranged on theme of status of application of science at village level.

Two days Interstate Exposure Visit is conducted by KVK, Namakkal under NICRA scheme as a cross learning experience for 12 progressive farmers & farm women to KVK, Tumkur and IIHR, Hesaraghatta on 9th & 10th October 2018. On 9th October the NRM activities like trench cum bunding techniques for soil & water conservation, recharging of defunct bore wells by interconnecting the wells & low cost farm ponds plastered with cement coated gunny bags were seen. In crop modules the rainfed cultivation of fruit crops, planting Melia dubia around the bunds for timber as well as fodder for small ruminants, intercropping systems, mixed vegetable cultivation suitable for dry land, additional crops like china aster & chrysanthemum fields were visited. Visited various silvipasture models and maintaining native goat breeds in that. Value added amla production unit at D. Nagenakalli & Tanganahalli NICRA cluster villages and various demo units of KVK, Tumkur were also seen.



On the second day, farmers visited IIHR, Hesaraghatta, Bengaluru. In IIHR, various micro irrigation & mulching techniques adopted in garland flowers, hybrid vegetables, fruits, intercropping systems in fruit crops, HDP in fruit crops, seed production techniques in vegetable and flower crops were seen.

Micronutrients in banana cultivation - Success Experience

1. Name and address of the farmer : Th. R. Selvaraj S/o. Ramasamy

Ganganaickenpatti, Mohanur,

Namakkal - 637 015.

Mobile : 97882 96009



2. Farm size & crop : 5 acres & Banana

3. Income generated / annum : Rs. 2,20,184/ha (Net Profit)

4. Package of practice adopted by the farmer before KVK intervention

- ❖ Application of inorganic fertilizer & organic manures without soil testing
- ❖ Need based plant protection measures

5. Package of practice adopted by the farmer after KVK intervention in 2016

- ❖ Soil application of biofertilizers (Azospirillum & Phosphobacteria) and bio control agents (Pseudomonas fluorescence).
- ❖ Soil test based inorganic fertilizer application through fertigation. Foliar spraying with IIHR banana booster @ 5 g/ litre of water from 3rd month after planting upto fruit stage with a month interval.
- ❖ Need based plant protection measures

6. Results :

- ◆ The results revealed that Foliar spraying IIHR formulated banana booster with ICM practices recorded highest number of hands/bunch (10.35), bunch weight (25.5 kg) and yield of 34.72 t/ha.
- ◆ Proved its superiority by recording 20% yield increase over check and having highest net income of Rs.2,20,184/- with a benefit cost ratio of 2.65 when compared to farmers practice having net income of Rs.1,12,857/- with a benefit cost ratio of 1.87.

7. Output:

- ☆ Foliar application of IIHR formulated Banana booster with ICM practices improved the size of single fruit in the bunch, number of hands per bunch and over all bunch weight. Hence farmers fetched more price on an average of Rs. 75 /- per bunch. Nearby farmers also adopted this technology by seeing the practice.

8. Out come

- ✓ Continuous adoption since 2016.
- ✓ 56 ha of banana fields covered with foliar spraying of banana booster in Ganganaickenpatti, Chinnathambipalayam and Sevitturanganpatty villages of Namakkal district by 18 farmers.

FOR MORE DETAILS PLEASE CONTACT

Senior Scientist &
Professor and Head
ICAR - Krishi Vigyan Kendra
Veterinary College and Research Institute Campus,
Namakkal - 637 002

ICAR - Krishi Vigyan Kendra, Namakkal

To

Mr/Mrs _____

From _____

Senior Scientist & Professor and Head
ICAR - Krishi Vigyan Kendra, VC&RI Campus, Namakkal - 637 002