



TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

DIRECTORATE OF EXTENSION EDUCATION, CHENNAI

ICAR - KRISHI VIGYAN KENDRA, Namakkal - 637 002



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ACTIVITIES OF KVK NAMAKKAL DURING COVID 19 LOCKDOWN PERIOD

Safety precautions at KVK, Namakkal

KVK Namakkal kept sensor based automatic sanitizer and liquid soaps in essential places and whoever visited the campus advised to disinfect or wash their hands properly and thermal scanning before and after every activity as a personal hygienic practice. A poster on the do's and don'ts during COVID-19 outbreak was placed in the entrance of the office building and awareness created to all. Face masks provided to all staff and workers who attended office and advised all to maintain social distance of 5-6 ft while working. Cleaned and disinfected the entire campus, vehicles and farm units with 2.5% lysol for vehicles, 1% sodium hypochlorite and bleaching powder to maintain hygienic surrounding.



Inputs supplied to farmers



KVK, Namakkal supplied needed critical inputs to farmers through Agro Technological Input Sales Mart that contains 86 variety of key inputs for the supply to farmers round the year. Normally farmers from Namakkal and nearby districts visit KVK Namakkal for the needed inputs. During lockdown period, 1125 farmers visited KVK for purchase of inputs and the following quantity of critical inputs supplied to needy farmers.

| Name of the critical inputs | Qty sold (kg/Nos) | Name of the critical inputs | Qty sold (kg/Nos) |
|-------------------------------------|-------------------|--------------------------------------|-------------------|
| Seeds and Planting materials | | Livestock, Poultry & Fish | |
| Fodder seeds | 3999 | Desi birds | 1243 |
| Castor seeds | 625 | Goats | - |
| Vegetable seeds | 32.5 | Mineral mixture | 150 |
| Fruit saplings | 325 | Mineral blocks | 148 |
| Coconut seedling | 850 | Azolla | 350 |
| CO-4 Fodder setts | 550 | Fish fingerlings | 38 Laksh |
| Bio products | | Other inputs | |
| Pseudomonas | 124 | Coconut tonic | - |
| Trichoderma | 98 | Neem oil | 55 Lit |
| Vermicompost | 925 | Pungam oil | 42 |
| VAM | 10 | Crop boosters | 56 |
| Azospirillum | 113 | Traps with lure | 98 |
| Phosphobacteria | 99 | Enriched Compost | 41 |
| PPFM | 1 lit | Micro Nutrient Mixture | 270 |
| Waste decomposer | 76 units | | |



Advisories to farmers

Krishi Vigyan Kendra, Namakkal delivered farm advisory services regularly to farmers through in-person, phone calls, whatsapp, m-kisan portal through agromet, KVK Facebook, Tamil dailies and field visits. Totally 4369 farmers by whatsapp groups, 164268 farmers by mkisan portal, 1563 farmers through KVK Facebook and 2245 farmers by phone calls & emails were reached during the lockdown period. Apart from this 1655 farmers visited KVK to avail various services provided by KVK during the lock down period. 142 advisory messages, 8 news in Tamil dailies and magazines, 4 radio talks and four phone in live programmes were conducted related to farm operations to encourage the farmers to take up timely farm operations in kharif season.



Marketing support to farmers



KVK, Namakkal procured groundnut seeds (2210 kgs), Sorghum (561 kgs) and fodder seeds (17250 kgs) from farmers and also supported fish farmers to harvest 3.0 tons of fish and 760kgs of shrimp and transported to Trichy market by following all precautionary measures. The ASCI trainees prepared bio inputs like, Panchagaviya, Jeevamirtham, Amirthakaraisal, Fish acid, EM Karaisal with fruits, vermiwash during the lock down period and applied to their crops in-turn protected from pest and diseases.

Aarogya Setu Mobile app 2020

As per the direction of ICAR, KVK, Namakkal motivated the farmers to install Aarogya Setu, a mobile application developed by the Government of India to connect essential health services with the people of India in combined fight against COVID-19. The staff of KVK Namakkal first installed and encouraged farmers to do the same. So far the message intimated to 6415 farmers and 1325 farmers installed.



Mass vaccination of Poultry birds at NICRA Village

Mass vaccination of backyard poultry against Ranikhet disease was carried out at Jambumadai and Vadavathur village on 28.04.2020 to prevent disease outbreak and 860 birds vaccinated and 53 poultry farmers benefitted.



Support to less privileged family



The staff of KVK Namakkal contributed Rs.56,000/- and provided assistance in terms of groceries, vegetables and eggs to 36 families in surrounding villages of KVK on 29.04.2020, who are less privileged, aged, disabled and lost jobs due to COVID 19 lockdown.

Soil and Water Analysis

During lockdown period, 59 soil and 36 water samples received from farmers and analyzed and issued soil health cards to farmers. Based on results, farmers were advised to suitable soil fertility management practices to improve soil health management.

World Honey Bee Day

KVK Namakkal celebrated World Honey Bee day in the apiary unit maintained by KVK beneficiary women farmers at Aniyapuram village of Mohanur block on 20.05.2020. Importance of honey bee in agriculture, medicinal value of honey in human health, honey bee farming practices and honey extraction methods disseminated to 21 farmers and 305 farmers were benefitted through whatsapp.



World Milk Day



Celebrated World Milk Day with livestock women farmers at KVK campus on 01.06.2020. The problems in dairying faced during COVID 19 lockdown time, clean milk production and value addition in milk were the topics discussed with 15 farmers.

World Environmental Day

KVK, Namakkal celebrated World Environmental day with KVK Staff on 05.06.2020. A total of 15 staff planted 30 tree saplings in different places at KVK Campus and taken oath on "Make it clean and green campus of KVK".



Diagnostic field visit



Joint diagnostic field visit was made to Cassava mealy bug infected field with the Agricultural production commissioner, Director of horticulture, Namakkal district Collector, Dean (Horticulture), TNAU Scientists, KVK Scientists, Joint director of Agriculture, Deputy director of horticulture at Kalkuruchi village on 29.05.2020 & 02.06.2020. Observed severe cassava mealy bug infected symptoms in many fields and suitable advisories given to the farmers for management.

Tribal Sub Plan (TSP)

The Tribal Sub Plan project was sanctioned to KVK, Namakkal with budget of Rs.12.00 lakhs for implementation at Gundurnadu and Vazhavanthinadu panchayat of Kolli hills during 2020-21. Hamlets selection under the selected village Panchayat and farmers group meetings were carried out for different microenterprises programme and baseline survey were completed. Visited Thambapadipatti, Pallikkadu, Elangiyampatti, Koochakiraipatti villages of Kolli hills on 10.06.2020 & 18.6.2020 and interacted with the farmers. Little millet (ATL-1), Finger millet (CO-15, KMR 204) seeds, bio agents, micronutrient mixture and vermicompost were distributed 40 farmers (16 ha) under front line demonstration at Thambapadipatti, Koochakiraipatti on 29.06.2020. Diagnostic field visit was conducted to Pepper fields affected by Coffee grass hopper at Vazhavanthinadu Panchayat along with TNAU scientists on 17.6.2020. So far 32 weather advisories were communicated to TSP farmers.



Paramparaghat Krishi Vikas Yojana (PKVY)

Peer Field inspection was carried out in Masila PKVY farmers' group at Elangiyampatti village, Kolli hills on 26.5.2020. Visited organically grown pepper, Cardamom, hill banana field, vermicomposting units, panchakavya production unit, apiary unit and threshing of pepper spikes by pepper threshing machine and verified the quality of dried pepper. PGS India issued PGS green organic certificates for 21 LG members of this group on 26.6.2020. So far 2 group meetings and one off campus training programmes were conducted on 15.5.2020, 18.6.2020 and 26.5.2020.



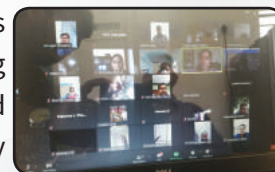
Convergence with ATMA programmes

KVK Scientists delivered technical lectures on Integrated crop management in pulses under ATMA farm school at Kurukkupuram and Akkaraipatti village organized by Rasipuram and Vennandur block of Namakkal district on 22.06.2020 & 26.06.2020. Imparted seed production technology and integrated pest management among farmers and demonstrated seed treatment and installation of pheromone traps in pulses field. A total of 60 pulses farmers were participated and benefitted.



Farmers Webinar

KVK, Namakkal conducted farmers webinar on Integrated farming for sustainable agriculture and Feeding management in dairy cattle and green fodder production through Zoom meeting on 19.06.2020 & 27.06.2020 with 87 farmers from different district of Tamil Nadu. Imparted technologies on castor production, current issues in tapioca, micronutrient management, dairy and sheep



farming, desi bird farming, mushroom production, azolla production, vermicompost production, feeding strategies in dairy cattle, green fodder production, fresh water fish farming, and cleared farmers doubts in integrated farming.

Impact of KVK Intervention

Farm advisories rendered and impact studied in a maize field recovered from fall armyworm incidence during October 2019 to January 2020.

Farmer Background

Name: Tmt. S. Padmini, **Village:** Marakadu **Block:** Mohanur,
Name of the crop: Hybrid Maize, **Variety used:** NK 6240, **Area of cultivation:** 2.5 acre

Problem Statement

- Non adoption of seed treatment with bio agents (*Beauveria* sp)
- Heavy incidence (42.4%) of fall armyworm during 12 days after sowing
- Unwanted chemical sprays done
- Higher amount spent for pesticides and spraying charges (Rs.7650/ha) during initial stage of crop

KVK Intervention

- Diagnostic field visit was made on 13 days after sowing
- Provided critical inputs (*Beauveria*, *Metarhizium*, Emamectin, Chlorantraniliprole)
- Frequent field visits made on 20 days interval
- Created awareness on IPM on FAW
- Mobile phone advisory rendered during entire crop period

Technological Intervention

- Thinning of maize plants to avoid close spacing
- Two weeding should be taken on 15 and 35 days after sowing
- Apply Neem cake extract through fertigation on 20 days after sowing
- Collection of FAW egg masses and destroyed
- Foliar spray of Azadiractin 1000 ppm @ 2 ml/litre of water on 15 days after sowing
- Foliar spray of *Beauveria* @ 5 g/litre of water on 23 days after sowing
- Foliar spray of Emamectin @ 0.4 g/litre of water on 30 days after sowing
- Foliar spray of Chlorantraniliprole @ 0.5 ml/litre of water on 37 days after sowing

Impact

- Fall armyworm incidence (100 %) controlled during 18 days to 80 days after sowing
- Maize grain yield achieved -7125 kg/ha
- Gross income - Rs.171000/ha
- Cost of cultivation - Rs.65500/ha
- Net income - Rs.105500/ha
- Benefit cost ratio - 2.61



Farmer Award

Th.P.Stalin, Nochipatti village of Puduchattaram block, Namakkal district, a CFLD Pulses farmer of KVK Namakkal. Taken up the CFLD Rabi Pulses demonstration on Green gram (var.CO-8) in 2.0 acres during 2019-20. He received Cash Award (Rs.10000) on second highest yield (1425 kg/ha) in state level crop yield competition from District Collector on 30.06.2020.



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