

समृद्धि

इकलगेवेवीहो

75
Azadi Ka
Amrit Mahotsav

ICAR-ATARI
Bengaluru

NEWSLETTER



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Director's Message

Technological innovations and their economic applications in the farmers' production system are the two engines of development. Farming system approach, Climate resilient technologies and Value addition & entrepreneurial development are the most important areas to be focused for sustainability and income generation. Formation of FPOs, FIGs and CIGs will strengthen the grass root economy of the farmers. Application of cutting edge precision tools and technologies in land preparation and water usage, use of Nano fertilizer and precision farming practices will reduce the cost of cultivation and optimize the resource use. Therefore, capacity development of extension functionaries and farmers in precision farming practices are to be taken up.

One of the major concerns of farmers is the timely availability of disease free quality planting materials pertaining to the varieties recommended to them. Here is the opportunity for creating farmer-industry-scientist participatory approach. One of the felt requirement of the farmer is mechanization support through simple tools and equipment's that reduces their drudgery and reduces the labour cost. Simple tools and equipment like solar powered fertilizer applicator, weeder, cutting tools need to be made available for the farmers. Use of drones and other recent innovations pertaining to transplanting will certainly benefit the farmers. Effective Trash management through in situ usage by appropriate technologies for bio degradation will help to increase the soil fertility and also reduces the environment pollution. For the last two years, Krishi Vigyan Kendras are conducting trials and demonstrations in the farmers' field to demonstrate and popularise the technologies for trash management. Yet there is a long way to go. It is therefore need of the hour to initiate a campaign on converting this trash to wealth for which all the partners need to join hands.

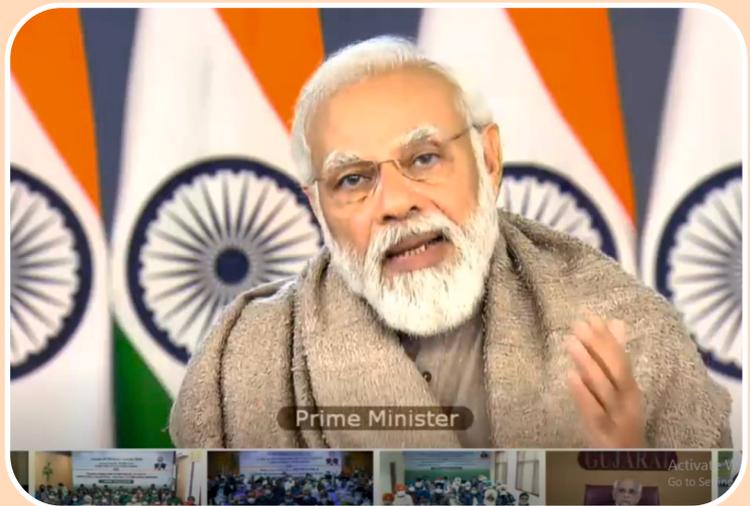
I feel motivated to read the contents of this issue of newsletter which showcase the spectrum of activities carried out by the KVKs. The felicitation of the Padma awardee farmer by KVK Dakshin Karnataka, Live interaction programme of farmers with Honorable PM and programme for technology backstopping to KVKs and FPOs are some of the highlights of this issue. My hearty congratulations to KVK Tumakuru-II (ICAR-IIHR) for winning the first prize in the National Water Award 2020.

(V.Venkatasubramanian)

PM in live webcasting on grant release under PM-Kisan Scheme and equity grant to FPOs

The live webcasting on release of grant under PM-Kisan and FPOs was held on 01.01.2022 at 12.30 pm. Hon'ble Union Agriculture Minister, Shri Narendra Singh Tomar, Hon'ble Ministers of State for Agriculture Shri Kailash Choudhary and Sushri Shobha Karandlaje were present on the occasion. The virtual event was attended by Hon'ble Chief Ministers of U.P, Haryana, Gujarat, Karnataka and Tripura, several ministers from different states, many representatives of agricultural institutions, officials, members of FPOs and farmers from KVKs across the country.

Event was started with welcome by Shri Narendra Singh Tomar, Hon'ble Minister of Agriculture & Farmers Welfare. In his address, Hon'ble Minister briefed about the PM-Kissan Samman Nidhi. He said that the Central Government has so far released more than Rs 1.61 lakh crore to the accounts of beneficiary farmer families under the PM Kisan Samman Nidhi Yojana since 1st December 2018.



Live webcasting

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PM in live webcasting on grant release under PM-Kisan Scheme and equity grant to FPOs

Hon'ble Prime Minister Narendra Modi released 10th instalment of more than Rs 20,946 crore under the Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) scheme to 10.09 crore families of farmers on the occasion of New Year 2022 in a virtual mode by pressing the remote button which is in line with the government's continued commitment and resolve to empower grassroots-level farmers. During the event, Hon'ble Prime Minister Narendra Modi also released equity grant of more than Rs 14 crores to about 351 Farmer Producer Organizations (FPOs), which will benefit more than 1.24 lakh farmers.

Hon'ble Prime Minister Narendra Modi interacted with FPOs from Haridwar (Uttarakhand), Amritsar (Punjab), Bharatput (Rajasthan), Lucknow (UP), Salem (Tamil Nadu) and Sabarkantha (Gujarat) followed by a video played on transforming agriculture with zero budget natural farming practices

Then, Hon'ble Prime Minister Narendra Modi addressed the event. In his speech he mentioned India's achievements and steps taken by the Central Government in 2021. He said that the Kissan Samman Nidhi helped farmers especially small farmers for getting good quality seeds and FPOs are boon for farmers. Further, he said that the FPOs have five powers viz., better bargaining, that is, bargaining power; marketing their produce, that is trade on a large scale; path for their innovations; risk management that is together can better assess challenges and create ways to deal with them; and the ability to change according to the market that create demand for their produce in the market

KVKs across the country actively took part in the event. A total of 47637 farmers and others viewed the telecast programme at 653 KVKs in their respective districts.



KVK Thrissur



KVK Chikkamagaluru



KVK Hassan



Live webcasting

Felicitation to Padma Shri Awardee Amai Mahalinga Naik: The Tunnel Man of Karnataka

A focal function to felicitate Amai Mahalinga Naik – The Tunnel Man of Karnataka was organised on 31.01.2022 at 4.00 PM in ICAR- Krishi Vigyan Kendra, Dakshina Kannada, Mangaluru during the 12th Scientific Advisory Committee (SAC) meet. It was attended by about 58 farmers, officers from various Institutions, students and KVK staff.

Dr. Chethan N. Scientist (Fisheries) welcomed the chief guests, farmers, officers from various Institutions, students and KVK staff. Dr. T. J. Ramesha, Senior Scientist and Head narrated the contribution of Amai Mahalinga Naik who has been selected as one of the Padma Shri awardees this year for his contribution towards agriculture



Dr. N. A. Patil, Director of Extension, KVAFSU, Bidar presided over the function. Dr. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga and Dr. Venkatasubramanian, Director ATARI, Bengaluru were chief guests.



Shri Amai Mahalinga Naik (Age 77 Years), an Innovative Farmer from Adyanadka village of coastal Dakshina Kannada District of Karnataka conferred with the prestigious Padma Shri Award - 2022 for transforming an arid sloping hill into a fertile farm through an Innovative Zero -Energy Micro-Irrigation System. He is known as “One-Man Army” and “Tunnel Man” in his surrounding areas.



Shri Amai Mahalinga Naik single handedly dug 6 Tunnels (Surangas) of 315 ft length to bring over water to his farm. He also constructed 300 percolation trenches alone in the hills surrounding the farm with around 5,000 large laterite stones that he carried himself to his farm. Shri Naik built two revetments (15-ft long, 30-ft wide and 5-ft high) and a tank of 12,000 litres capacity to fill-up the revetments. He turned a deserted and barren plot of land into a lush oasis supporting 300 arecanut palms, 75 coconut trees, 150 cashew trees, 200 banana saplings and pepper vines. In addition to this, he also keeps bees and produces azolla for his cows as a dietary supplement. Shri Naik’s farm has become a model-farm land and has over 1,000 visitors every year including the foreign tourists.

Workshop on Technology Backstopping to Karnataka FPOs

One day workshop on “Technology Backstopping to Karnataka FPOs” was organized by ICAR-ATARI, Zone XI in collaboration with University of Agricultural Sciences, Bengaluru through on-line on February 11, 2022. FPO members and KVK scientists participated in the workshop.



Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Zone XI welcomed dignitaries and participants. In his address, he emphasized the need and importance of FPOs for remunerative agriculture.

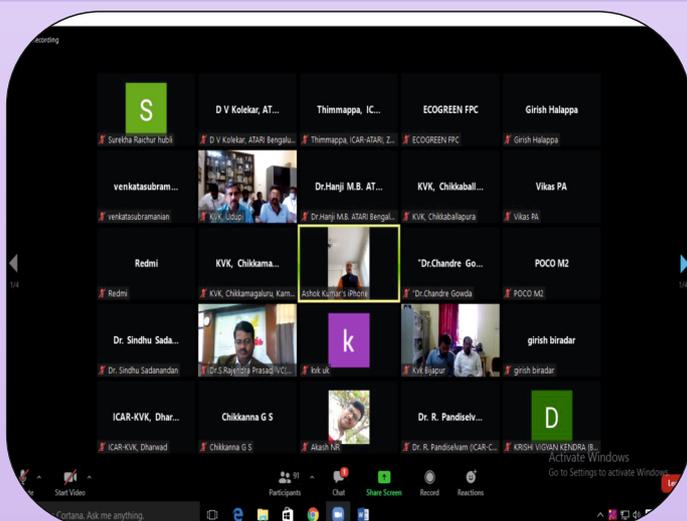


Dr. A. K. Singh, Deputy Director General (Agricultural Extension), ICAR, New Delhi was the Chief Guest. He highlighted the Prime Minister’s ambitious programme of forming 10000 FPOs across the country.



Dr. Rajendra Prasad, Vice Chancellor, University of Agricultural Sciences, Bengaluru was the Guest of Honour. He suggested that each KVK need to adopt one FPO to transfer available technologies. He advised the KVKs to act as knowledge partner and provide all technology inputs starting from production till processing and export linkages to market their products. He suggested KVKs to explore the possibilities of linking FPOs to MSME and Atma Nirbar Bharat programs.

He informed that KVKs are also involved in formation and handholding of FPOs. He said that whichever FPO comes in contact with any ICAR institutes, Agricultural Universities and KVKs, they should be provided with all kinds of handholding in terms of technology support. Those KVKs who have not directly involved in the formation of FPOs may support existing FPOs in their district by providing advice and linking with other agencies. He appreciated three FPOs for sharing their success in the workshop. He suggested that those FPOs have taken one product may diversify into two or more products to run FPOs profitably throughout the year based on seasonality and availability of raw materials.



Five different product-based technology lectures viz, technology for coconut-based products from ICAR-CPCRI, Kasaragod, technology for horticulture-based products from ICAR-IIHR, Bengaluru, technology for millet-based products from ICAR-IIMR, Hyderabad, technology for fish-based products from ICAR-CIFT, Cochin and technology for animal-based products from SRS, ICAR-NDRI, Bengaluru were organized during the technical sessions of the Workshop.

Mr. Subbaya, Chairman, Puthari Farmer Producer Company Limited, Kodagu, Mr. Satyanarayana, C&MD, Udupi Kalparasa Coconut and All Spices Producer Company Limited, Udupi and Mrs. Allwinn, Tulunadu Ecogreen Farmers Producer Company Limited, Kasaragod shared their FPO success and achievements.

International Women's Day

As a part of Azadi ka Amrit Mahotsava, International Women's Day was celebrated by 33 KVKs of Karnataka (24) and Kerala (09) on 8 March 2022. A total of 54 events were organized by KVKs of the zone which includes seminar (07), trainings (35), goshtis (03) and exhibitions (03) to benefit 6747 participants. Women entrepreneurs shared their success stories in processing and value addition enterprises. Further, KVKs have felicitated farm women for their outstanding contribution in vegetable and horticultural crop production, organic farming, dairy management, processing and value addition. Major activities covered during the occasion are given below:

- Nutri-garden and its establishment
- Bank loans for women entrepreneurs and SHGs
- Drudgery reducing tools
- Millet nutrition
- Fodder crops
- Natural farming
- Soil and water management
- Kitchen and terrace gardening
- Malnutrition and obesity
- Hygienic milk production
- Recycling of agriculture waste
- Dietary diversification to address malnutrition
- Exhibition cum cooking and sports competitions
- Exposure visits to technology demonstration units



KVK, Kollam

KVK, Ernakulam

KVK, Kodagu



Exhibition cum Millets Cooking Competition (KVK, Mysuru)

Organization and celebration of World Pulses Day

ICAR is celebrating 75 years of Independence Azadi ka Amrit Mahotsav by organizing monthly campaign at national level by involving 726 KVKs across all the States and UTs. As a part of it, KVKs across the country organized the campaign on World Pulses Day on 10.2.2022 with the theme of Atmanirbhar Bharat - Harnessing Potential Of Pulses for Import Substitution.

At national level, a total of 1138 activities were taken up by 668 KVKs across the country with the participation of 46570 farmers. Out of which, 123 seminars, 455 training programmes, 342 goshties and 140 exhibitions wherein 6000, 18533, 15460 and 7064 farmers participated, respectively.

Different outreach activities including seminars/training programmes/goshtis/exhibitions, etc were organized.

Various farmer awareness programs showcased and demonstrated new technological advances for enhancing productivity and profitability of agriculture and allied sectors.

Progressive farmers who have successfully adopted latest technologies and made contribution to wide scale adoption of technologies were felicitated by the KVKs on the occasion.



KVK Dakshina Kannada



KVK Malappuram



KVK Ramanagara

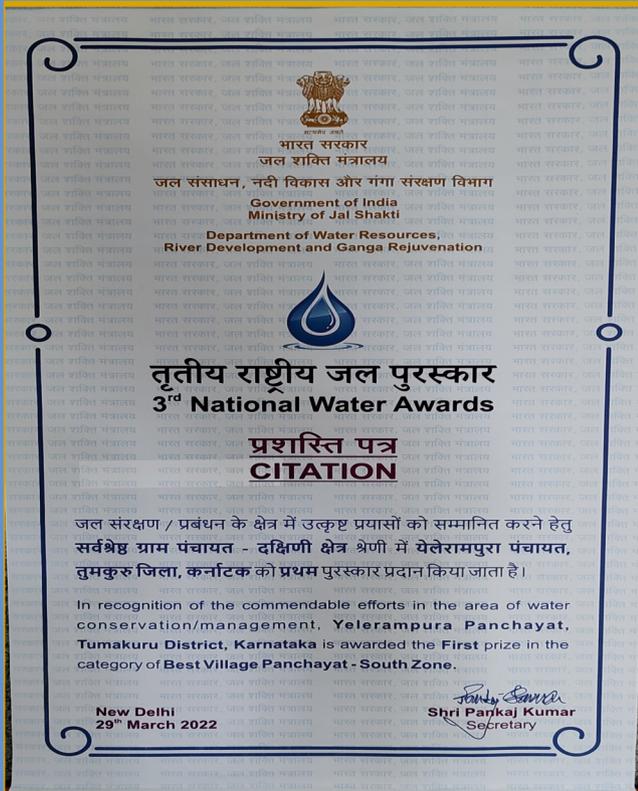
Under Zone XI, 37 KVKs of Karnataka (27) and Kerala (10) organized 49 events on the occasion, which includes seminars (14), trainings (19), goshties (13) and exhibitions (3) with the participation of 2011 farmers to create awareness on importance of pulses.

NICRA-KVK, Tumakuru-II bags First Prize in 3rd National Water Award - 2020



His Excellency, the President of India, Ram Nath Kovind has presented First Prize in 3rd National Water Award 2020 in New Delhi on 29 March, 2022 to Yelerampura Grama Panchayat. The award was received by Dr. N. Loganandhan, Senior Scientist & Head, KVK, Tumakuru-II and Smt Ganga Devi, President, Yelerampura Grama Panchayat, Kolala Hobli, Koratagere Taluk, Tumakuru District, Karnataka

Award Memento



ICAR-KVK, Tumakuru-II and Yelerampura Grama Panchayat of Karnataka were jointly awarded 'Best Village Panchayat'- South Zone, First Rank under 3rd National Water Awards -2020, by Ministry of Jal Shakti, Government of India in recognition of climate resilient work carried out under the project National Innovations in Climate Resilient Agriculture (NICRA) in the area of water conservation and management at D.Nagenahalli village of Yelerampura Grama Panchayat, Kolala Hobli, Koratagere Taluk, Tumakuru District, Karnataka since 2011.

NICRA-KVK, Tumakuru-II bags First Prize in 3rd National Water Award – 2020

Under NICRA project, various rainwater harvesting structures were constructed/renovated to conserve/store and provide critical irrigations to kharif and rabi crops. Some significant achievements are given below:

- Rainwater harvesting and storage structures were created with the capacity of 203360 Cu m (20.33 Crore Litres) at D.Nagenahalli village through development of 81 new farm ponds, five check dams, 13 percolation ponds, four cement/plastic lined storage, renovation of 15 farm ponds, two community tanks and eight check dams .
- Besides, water storage capacity of village tank due to desilting and widening of catchment channel risen to 145600 Cu m. As a result of these rain water harvesting and storage structures, 25 out of 32 open wells and 21 out of 29 bore wells got recharged and became functional .
- Around 60.50 ha was brought under protective irrigation for rainfed crops like finger millet, pigeonpea and groundnut and farmers were able to take additional crops like vegetables and flowers which enhanced their income .



Aerial view of water harvesting structures in the D. Nagenahalli village



Crops and horticulture plantings making use of harvested rain water

- Several in-situ moisture conservation methods like trench-cum-bunding, sowing across the slope and improved planting methods were adopted by farmers resulted in increase of yield up to 35 per cent.
- Trench cum bunds and contour bunds were created in 124 ha which resulted in increased moisture content to sustain the crops during intermittent dry spells.
- In addition, mixed forestry species such as *Melia dubia*, *Acacia auriculiformis*, teak and silver oak seedlings were planted on trenches in 27 ha and dryland horticulture crops such as tamarind (Gottipura/PKM1), mango (Alphonso), aonla (NA5/7/Krishna/Kanchana), cashew (Ullal-3/5), jamun (Doopadal) were planted in 16.5 ha area.
- The tree based farming area has been increased by more than 200 per cent in the village as compared to the base year.
- Further, the drought tolerant and short duration crop varieties and intercropping systems demonstrated in 180 ha played a major role in mitigating climate variability in last 10 years and marched towards climate smart village.



हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

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