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KVK Times

A WINDOW TO KVK'S OF ICAR-ATARI, ZONE-XI, BENGALURU



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FOREWORD



The ICAR-Krishi Vigyan Kendras as farm science centres implementing the lab to land programmes with a responsibility of frontline extension agency. The district level nodal agencies ICAR-KVKs playing a vital role in transformation of farmer's economy. As a Knowledge resource centres, they are supporting the economic sustainability of farmers by supplying quality seeds, seedlings, bio-agents etc., which are region specific. The 'KVK Times' by ICAR-ATARI Zone XI, Bengaluru become a platform for exchange of ideas of Zone-XI KVKs and helped farmers to learn the agricultural technologies out of the district and even the state.

It gives me immense pleasure to know that National best KVK awardee ICAR-KVK, Kalaburagi-I "Pandit Deen dayal Upadhyay Krishi Vigyan Protsahan Puraskar-2020" has demonstrated innovative technology by developing the QR code scan based 'Connect KVK, Kalaburagi' digital platform and 'Do Scan and Call Scientist' innovative program which consists more than 350 QR code generated video technologies uploaded to University and KVK websites / portals for wider publicity among the farming community within a short period of time. Further, it helps to educate the all the stake holders of the KVK, thereby uplifting their livelihoods and augmenting farmers / entrepreneurs incomes. In addition, contact farmer mainly Sri. Sharanbasappa Patil from Halsultanpur village Kalaburagi district has bagged national level "ICAR-Jagjivan Ram Innovative Farmer Award-2020" for his innovative contribution to the agriculture coupled with innovative contact farmers who got National, State and Regional awards during 2023-24 under the guidance, support and encouragement of ICAR-KVK, Kalaburagi-I.

I would like to express my complement to Dr. V. Venkatasubramanian, Director, Zone XI, ICAR-ATARI, Bengaluru and all the staff of Zone XI, his team and all the members of each KVK's for their effort to share their achievements in bringing out the "KVK TIMES". I wish from bottom of my heart that the KVK system take our agriculture profession to new horizon.

I am happy and appreciate that ICAR-KVK, Kalaburagi-I is compiling the 20th issue of KVK Times of Zone-XI for the fortnight from 16-30th April, 2024.

Raichur
30 April 2024



Dr. M. Hanumanthappa,
VC, UAS, Raichur





FOREWORD

DR. V VENKATASUBRAMANIAN

THE DIRECTOR

ICAR-AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH INSTITUTE
ZONE XI, BENGALURU



Krishi Vigyan Kendras are playing pivotal role in handholding of farmers through technological backstopping for enhancing the productivity of crops and enterprise keeping in mind profitability and sustainability. 'Believing through seeing' and 'Learning by doing' is most appropriate to the KVKs, as the Scientists and farmers are jointly involved in implementing KVK mandated activities to reach the mission of enhancing the farmers income. KVKs are expanding the horizon from elite extension to innovation, market linkage, FPOs, processing and value addition. 48 KVK's in Zone XI of ATARI placed in states of Kerala, Karnataka and Lakshadweep Union Territory has immensely contributed in enhancing agriculture productivity and farmer income thus ensuring sustainable social and livelihood security of farm families.

A first of its kind virtual platform. KVK TIMES which documents fortnightly activities of each of the 48 KVKs of Zone-XI is gaining a real momentum. The news items covered in issues made an impact that is along lasting. Most of the news items published in the TIMES has got the potential of cross learning among KVKs and worth reading. This should boost the morale of all of us and many such noteworthy efforts of our fraternity in the zone.

I am happy that KVK, Kalaburagi-I is bringing up the 20th issue of second volume of KVK TIMES covering the second fortnight of April, 2024. I congratulate the KVK fraternity of Zone XI specially Dr. Raju G. Teggelli, Senior Scientist and Head and his team of KVK, Kalaburagi-I for bringing out this unique edition of KVK Times.

Bengaluru
30 April 2024



[V Venkatasubramanian]





FOREWORD



In the Frontline Extension System, KVKs play an important role in the transfer of technologies from research stations to the doorsteps of farming communities. The contribution of KVKs in agriculture is remarkable and they are playing an important role in closing the gap between research institutes and farming communities. It thrives hand in hand to improve the scenario conditions of the rural masses by creating self-employment opportunities for their livelihood security. So, the ICAR-KVK's at district level working as vibrant knowledge resource centres in pursuit of farmer's progress by scientific transformation of agricultural technologies.

The Krishi Vigyan Kendras play a vital role on the principle of "Lab to Land" through use of different extension methodologies, but there was a gap in exchange of ideas between KVK's. In this issue, on the eve of KVKs Golden Jubilee celebrations, documented the main achievements, success stories of Natural Farming farmers and regular events of all KVK's effectively which fills the gap in exchange of ideas, knowledge between the ATARI-Zone XI, KVK's.

My profuse thanks to Dr. V. Venkatasubramanian, Director, Zone XI, ICAR-ATARI, Bengaluru for giving us this opportunity and all KVK's of Zone-XI for constantly working towards the welfare of farmers. I acknowledge with sincerity, the constant support and auspices we receive from our Hon'ble Vice Chancellor, Dr. M. Hanumanthappa, University of Agricultural Sciences, Raichur in carrying out our KVK mandate activities and his constant incitement to serve the farming community to the best of our abilities.

I congratulate in my compliments to the entire team of ICAR-KVK, Kalaburagi-I for bringing out the 20th edition of 'KVK Times' during 16th to 30th April, 2024 and nicely covering important activities of all KVKs in this issue.

Raichur
30 April 2024



Dr. S. B. Goudappa
DE, UAS, Raichur





ACKNOWLEDGEMENT



I am very glad to express my gratitude to Dr. V. Venkatasubramanian, Director, Zone XI, ICAR-ATARI, Bengaluru, whose vision of creating the KVK Times has significantly united all the KVKs under Zone XI and enhanced our awareness of the vital activities carried out by each KVK. I extend my heartfelt thanks to the Director and all the Nodal Scientists, Technical and Administrative Staff of ICAR-ATARI, Zone-XI, Bengaluru for providing us an opportunity to bring out second this volume of KVK Times of Zone-XI for the 2nd fortnight from 16th to 30th April, 2024 for their constant guidance and support in executing KVK activities.

Special thanks to Dr. Mallikarjun, our Nodal Officer, for his unwavering motivation and guidance. I also thank Dr. Kolekar for his invaluable assistance in producing this issue.

My deepest appreciation goes to Dr. Hanumanthappa, Hon'ble Vice Chancellor of UAS, Raichur, for his consistently supportive attitude and commitment to development. I am also grateful to our beloved Directorate of Extension, Dr. S. B. Goudappa and Directorate of Extension staff of UAS, Raichur for their regular motivation and guidance.

I extend my special gratitude to Dr. A. R. Kurubar, Associate Director of Extension, UAS, Raichur for his guidance in ensuring this issue's success. Additionally, I sincerely acknowledge the entire Zone-XI, KVK family members for sharing their KVKs' the valuable information on various activities with remarkable achievement coupled with successful Natural Farming farmers' details in time.

Finally, I thank all the members of my ICAR-KVK, Kalaburagi-I family for their constant support, encouragement and efforts were indispensable in bringing out this issue to fruition.

Kalaburagi
30 April 2024



Dr. Raju G. Teggelli,
Senior Scientist and Head
ICAR-KVK, Kalaburagi-I



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Under the guidance of ICAR-ATARI, Zone-XI, Bengaluru



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ICAR-Krishi Vigyan Kendra-Alappuzha



KVK ALAPPUZHA TECHNOLOGY

(DRUM SEEDER – A climate smart equipment to enhance the profitability of paddy cultivation)

Salient Features of technology :

Drum seeder, a simple equipment for wetland sowing of paddy, was demonstrated and popularized among hundreds of farmers by the KVK in Kuttanad region, the rice bowl of Kerala. By using the drum seeder, the seed requirement could be reduced to 30 kg/ha from 100-120 kg/ha usually used by farmers for broadcasting, the plant population was optimum, the number of productive tillers was high and there was enough aeration in the crop stand which reduced incidence of pests and diseases and resulted in higher yield. Further the plants had strong anchorage in the soil which helped them survive lodging due to summer showers and wind in the harvesting stage. Thus this technology offered climate resilience and reduced the time taken for harvest by the combined harvester and thus the cost on harvesting by 40-50% due to the uniform population and non-lodging feature achieved. All these factors put together reduced the cost of cultivation by 10-20% and increased the net profit by Rs.25000 per ha.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | |
|--------------------------------------|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Bengaluru Rural District |
| Name of the NF Farmer | : Sri M.C. Raju |
| Address with Contact No. | : S/o Chikkanna Tubagere Hobli, Doddaballapura Taluk Bengaluru Rural District - 561205 Cell: 9743570839 |
| Landholding | : Total : 3.3 ac Under NF : 2.3 ac |
| Farming situation | : Rainfed: 2.3 ac Irrigated: 1.0 ac |
| Natural Farming adopted in crops | : Silver oak – 25, Butter fruit – 50, Cashew – 55, Meliadubia– 120, Jamun – 23, Dates – 12, Curry leaf-30, Custard apple – 35, Teak-5, Areca – 6, Pongamia-15, Coconut – 8, Banana-25, Jasmine – 40, mulberry plants-450, different varieties of Jack-25 and also growing spices like cloves, cardamom, pepper, fig, ginger, medicinal plants, fruits and also vegetables are growing under Natural farming. |
| Innovations adopted | : -- |
| Annual Net Income from NF | : Rs. 4 Lakhs |
| Awards received | : 1. "AdarshaKrishikaPrashasti" award from 'Vishwa Kannada Sahithyamattu Samskruthikasamsthe' during 2021-22. 2. Sahithya KrishiPrashasti - 2022' Award from Sathya Shanthaprathishtana (Reg.) during 2022. |
| Interventions of KVK in fostering NF | : Training on Natural farming, preparations of bio inputs in their farm only. |





ICAR-Krishi Vigyan Kendra-Alappuzha

Technology Awareness Camp' organized

On behalf of the Agri Business Incubator (ABI) of ICAR-CPCRI, Kasaragod, a one day technology awareness camp was organized in the KVK on 17th April, 24 for entrepreneurs of Alappuzha and Kollam districts. Prime objective of the camp was to create awareness among the entrepreneurs on technologies of ICAR-CPCRI which are available for transfer to them including coconut varieties, bio-agents, machineries and processed products. Dr. K. Muralidharan, PS and OIC of the ABI explained the technologies available and their

prospects. Dr. Regi Jacob Thomas, Head, ICAR-CPCRI, Regional Station, Kayamkulam and Dr. P. Muralidharan, Head, KVK also addressed the entrepreneurs on the occasion. Following this, a detailed orientation on the preparation of value added products from coconut was given to the participants by Smt. Jissy George, SMS, KVK. Forty one small scale entrepreneurs and farmer group coordinators attended the programme with great enthusiasm.

(P. Muralidharan, Head and Jissy George, SMS)



B Tech (Food Processing) students attended hands-on-training

Fifteen students undergoing their B Tech (Food Processing) programme at Sree Buddha Engineering College, Pattoor attended a two day hands-on-training programme in the KVK on 18th and 19th April, 24 on value addition of banana and plantains. The students were trained on preparation of

different value added products like banana flour, confectionaries, snacks, banana fig, halva, jam etc in the two days. The students expressed their excitement and satisfaction on learning the preparation of the products themselves.

(Jissy George, SMS)





ICAR-Krishi Vigyan Kendra, Bagalkot



KVK BAGALKOT TECHNOLOGY

(*Metarhizium anisopliae*- A Bio -Pesticide for root grub management in Sugarcane)

Salient Features of technology :

@12.5kg/ha +100kg of well decomposed farmyard manure (FYM) or vermi-compost. Talc based *M. anisopliae* should be thoroughly mixed with FYM and incubated for 10days under shade for multiplication of fungus, this enriched mixture should be applied in field at the time of planting of Sugarcane and Second application at the time of emergence of larvae in the month of June-July coinciding with activity of young stage of the grub. The technology has reduced the grub population by 50% and given an additional yield of 35 t/ha of sugarcane.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Bagalkot |  |
| Name of the NF Farmer | : Sri. Shrikant Kumbar | |
| Address with Contact No. | : S/o Parasappa Kumbar, Mugalkhod, Mudhol, Tq: Mudhol Dist: Bagalkot, Cell: 9740813888 | |
| Landholding | : Total : 13 ac Under NF : 013 ac | |
| Farming situation | : Rainfed: 0 ac Irrigated: 13 ac | |
| Natural Farming adopted in crops | : Turmeric, Maize, Soyabean, Sugarcane, Wheat, Dicoccum Wheat, Curryleaves. | |
| Innovations adopted | : Removal of central shoot in Turmeric after 60days within 90days for higher yield . *15-20% increase the yield *Increase in Turmeric rhizomes 5-12 rhizomes per plant | |
| Annual Net Income from NF | : Rs. 13 Lakhs | |
| Awards received | : 1) 2015 - Mahindra Agri Award, 2) 2016 - Taluk Level UAS Dharwad Best Farmer Award 3) 2018 - ATMA District Level Best Farmer Award, 4) 2020 - Krishi Pandit State level, 5) 2021 - Organic India National Award, 6) 2023 - ASPEE Award | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Preparations of bio inputs in their farm and Value addition to Jaggery, Turmeric Labeling, Packing in this own brand FPO Member for Golden Spice FPO Mugalkhod. | |





ICAR-Krishi Vigyan Kendra, Bagalkot

Scientists visit to Farmers Field:

ICAR- Krishi Vigyan Kendra, Bagalkot scientists were visited different farmers field for selection of state level best farmers award of Bagalkot district on third week of April. In their visits different practices done by the farmers like grapes orchard, organic inputs unit, farm machinery unit, vermicompost demo units of different farmer's field of the district. Dr. Sudha, Scientist (Plant Pathology), Dr. S. P.

Dinesh, Scientist (Agronomy) and team were actively participated.

During visits they emphasised importance of organic inputs in Agriculture and their role in improving of soil fertility and also explained major pre-monsoon activities are carried out during summer season like summer ploughing, soil and water testing, collection of seeds and inputs.





ICAR-BIRDS Krishi Vigyan Kendra, Ballari



KVK BALLARI TECHNOLOGY


(Fig and its products)

Salient Features of technology:

Fig being major dry land horticulture crop growing in Kurgodu and Sirguppa Tq of Ballari district to the extent of 1200 acre. value addition in Fig fruits initiated among the farm women in major Fig growing areas of Shrinivas nagar camp, Kurugodu. With the advantage of ODVP scheme, the entrepreneur of the respective village has been trained and marked as beneficiary in getting Agri Processing equipment's such as solar drier, Hot air oven, mega poly house under ODOV scheme through State Department of Horticulture, Ballari Further, entrepreneur has been assisted in getting FSSAI number for branding and Marketing of products for different outlets. Fig crop occupied 250 hectares more land. Farmers/farm women are gaining more profit in selling value added fig rolls than selling fruits alone. Demand for fig fruits is increased because of value addition activities. Post harvest losses of fruits has reduced significantly.

(Author: Mr. S. S. Sharma, Farm Manager)

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-KrishiVigyan Kendra, Ballari |  |
| Name of the NF Farmer | : Sri. B. Hanumanagouda | |
| Address with Contact No. | : S/o B. Shivanna, Ibrahimapura, Ballari (Tq& Dist.) Cell: 9538443349 | |
| Landholding | : Total : 06 ac Under NF : 6 ac | |
| Farming situation | : Irrigated: 06 ac | |
| Natural Farming adopted in crops | : 2000 Guava trees, 25 Nerale, 100 custard apple, 100 lime, 1000 drumstick, 2000 curry leaf, growing vegetable crops such as beetroot, cucumber, brinjal, lady finger and sweet corn as an intercrop and 200 Mahogany timber plants all along border as trees. Farmer having 3 cows, 2 calf, 2 buffaloes and 15sheeps for production of organic waste. | |
| Innovations adopted | : 1. Insitumanuirng of farm waste. 2. Bio based plant products preparation such as neem oil, pongemia oil, dashaparnekashaya, beejamurtha, jeevamurtha as foliar spray for pest and disease management. | |
| Annual Net Income from NF | : Rs. 6 Lakhs | |
| Awards received | : Shresta Krishika award at Taluk and District level by JDA, Dept. of Agriculture, Ballari during Farmers day celebration 2022-23 and 2023-24. | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Preparations of bio inputs in their farm only, Agroforestry based farming system and dairy. | |





ICAR-BIRDS Krishi Vigyan Kendra, Ballari

NUTRI KITCHEN GARDEN: a sustainable farm of farm income and for a healthy family

KVK scientists, Hagari visited nutri kitchen garden cultivated by Nagarajappa S/o Basavanagouda at Kyadigihal village, Sirguppa Tq Ballari District on 18.04.2024. During the interaction, farmer briefed the farming activities in which 2.5 acre cultivable land with borewell source of irrigation cultivated Cucumber, pumpkin, brinjal and beet root as an intercrop in between drumstick as perenial cash crop. All along the border, many dry land fruit crops such as tamrind (50), amla (27), Ber (55) and Fig (25) being cultivated. His main farm of cultivation through organic practice by using

Farm waste mulching in the farm, prepares dashaparani kashaya applying as foliar spray at 5 ml/l for pest and disease management. Farmer proudly accepts sustainable source of farm income by getting Scientists KVK hagari, advised farmer to soil application of FYM mixed micro utrient mixture EDTA Zinc and Iron sulphate at the rate 10 kg per Acre. Further advised to use bio pesticides neemoil 2 ml/l and Pseudomonas 5 g/l as foliar spray in combination with Hexaconazole 2 ml/l and chorophyriphos 1.5 ml/l for major pest and disease control.





ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-I



KVK BELAGAVI-I TECHNOLOGY (Vegetable Special)


Salient Features of technology :

Vegetable Special (which consists of all micronutrients along with Mg and S), which helps in yield increment to the extent of 15-20%, if sprayed in the foliar region as per recommended dose during cooler hours of the day adding urea, pH regulator (Lemon) and wetting agent starting at 25 days after transplanting 4 times at the interval of 15 days.

The dosages being 5 g/L for hyb. Tomato, Cabbage, Cauliflower, 4 g/L for varieties of Tomato, 3 g/L for Okra, 2 g/L for Leafy vegetables and 1 g/L for Watermelon, Muskmelon, Gourds and Cucurbitaceous vegetables.

(Author: **Mr. S. S. Sharma**, Farm Manager)

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR- BIRDS, Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 |  |
| Name of the NF Farmer | : Sri. Ramesh Basappa Khanagoudra | |
| Address with Contact No. | : AT/Po: Kalloli, Block-Arbhavi, Talu-Mudalagi, Dist. Belagavi. 591224, Cell No. 8880849242 and 9986052166 | |
| Landholding | : Total : 3.3 ha Under NF : 0oha | |
| Farming situation | : Rainfed: 0o ha Irrigated: 3.3 ha | |
| Natural Farming adopted in crops | : Soybean, Sugarcane, Maize, Turmeric, Ground nut and Chick pea as intercrop, Drumstick, Papaya, Gauva etc. 45 Lucknow-49 guava plants, 80 Coconut plants, 45 meli dubia trees, Amla and Moringa along with fruits plantations. Livestock/ Fisheries grown: Cattle-12 Nos, Fisheries rearing unit and Poultry unit and honey bee unit, Goat farm. | |
| Innovations adopted | : Title of innovation: Go Arkha preparation Machine | |
| Annual Net Income from NF | : Rs. 12 Lakhs | |
| Awards received | : 1. Shresth Krishik Prashasti- KSDA Belagavi 2. Super star Raith -Vijay Karnataka 3. Arbhavi Matkshtra Tatna awarded by Janata Party and 4. Viswkri Kayak Ratna awarded by Vishwa darshan Dina patrike | |
| Interventions of KVK in fostering NF | : Training on Natural farming, all most all field crops, seasonal intercropping systems, Agroforestry based farming system, Preparations of bio inputs in their farm only and season and market based cultivation. Established sugarcane juice extraction unit, Go Arkha preparation Machine and he has his own marketing shop. | |



(Author: **Mr. M. N. Malawadi**, Scientist (Agronomy))





ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1



Department of Agriculture, Hukkeri Organised **“World Earth Day Celebration”** in Association with Department of Judiciary and Judiciary Association, Hukkeri along with all the line Departments viz. Horticulture, Health, Women & Child care and Krisik Samaja of Hukkeri taluka.

Chief guest of the program Shri. K. S. Rotter, Senior Civil Judge, Hukkeri expressed concern that the adverse climate changes are increasing year by year due to human greed's. While inaugurating the World Earth Day celebrations organized on 22nd April 2024, he said that excessive human greed has led to ecological imbalance. So, there is an urgent need to leave life as an environment lover. In addition, he said, we should focus on creating plastic free Earth for our future generations.

Shri. R. B. Naikar Assistant Director of Agriculture, Hukkeri was presiding, said that we all have to reduce the use of plastic this year and burning of sugarcane trass should be stopped.

Shri P. M. Patil, Scientist (Horticulture), KVK Belagavi-1 as resource person said that the destruction of trees is increasing

as modernity increases. Due to this, the land is becoming barren and everyone should plant and nurture it. The Earth should be preserved through green cover.

Shri. K. Ambanna, Civil Judge, Hukkeri, Shri. Ramchandra Joshi, Senior Advocate, Hukkeri Smt. Lavanya Saunsadi are spoke about the preserving the earth. Shri. Sameer Lokapura mastered the event. Shri. B. K. Magannavara, President of the Farmers' Society, offered vote of thanks. Additional Government Advocate Shri. A.C. Karoshi, Assistant Government Prosecutor Shri. Shekhara Badagaon, Vice-President of Bar Association Shri. B.M. Jinarali, Secretary Shri. S.G. Nadaf, Joint Secretary Shri. V. L. Gasti, Treasurer Shri. A. A. Bagewadi, Women Representative from Advocate association Smt. A. B Kulkarni, THO Dr. Udaya Kudachi, Senior Horticulture Director Shri. Tatyasahed Nandani, Anganwadi Senior Supervisor Smt. Nirmala Kurabeta and 115 farmers & farm women around the Hukkeri taluka were gathered made the successful event.

(Author: **Mr. P. M. Patil**, Scientist (Horticulture))





ICAR-KLE Krishi Vigyan Kendra, Belagavi-II



KVK BELAGAVI-II TECHNOLOGY (Supply of Quality Seeds)

Salient Features of technology :


Seed is a critical input and plays pivotal role in increasing the productivity. Looking into the constraint of non-availability of quality seeds to the farmers, KVK took initiation in production of quality seed material under “Seed Hub Project” under NFSM for pulse seed production, “3SIY” project for soybean seed production and Revolving Fund of KVK for cereal seed production. KVK is successfully producing seeds of different varieties of cereals, pulses, oilseeds and vegetable crops. So far, KVK has produced 31 q of paddy (RNR-15048), 105 q of rabi jowar (SPV-2217 & M-35-1) and 51 q of wheat (UAS-334, MACS 6478, DBW-93, DBW-168 & UAS-375) in cereals. Among pulses, KVK has produced 322 q of greengram (DGGV-2), 17 q of black gram (LBG-791& DBGV-5) and 2320 q of bengal gram (JG-11, Jaki-9218, BGD-111-1, Phule Vikram, Phule Vikranth, NBeg-452, NBeg-857 & NBeg-49). In oil seed crops KVK has produced 2579 q of soybean (Dsb-34, RVS-24, KDS-753, KDS-726 and NRC series) and 84q of ground nut (Dh-256, Kadri-1812, TG-37A, TG-39, TAG-24 & KDG-128) and among vegetables 12 q of onion (Bhima Super & Puna Fursangi). The seed produced was distributed to 32,986 farmers covering an area of 13,194 ha. Seeds from KVK have reached Dharwad, Bagalkot, Haveri, Vijayapura, Kalaburagi, Bidar, Gadag and Chikkamagaluru districts of Karnataka and states like Andhra Pradesh, Assam, Bihar, Maharashtra and Madhya Pradesh.





ICAR-KLE Krishi Vigyan Kendra, Belagavi-II

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-KLE Krishi Vigyan Kendra, Belagavi-II |  |
| Name of the NF Farmer | : Sri. Anand Wali | |
| Address with Contact No. | : S/o Patreppa Wali, Marakumbi, Savadatti Tq., Belagavi Cell: 9845845243 | |
| Landholding | : Total: 30 ac Under NF: 5 ac | |
| Farming situation | : Rainfed: 20 ac, Irrigated: 10 ac | |
| Natural Farming adopted in crops | : Soybean (5ac), Bengal gram (5 ac), Drumstick (50), Guava plants (25), Coconut trees (50), Mango plants (20), Lime plants (20), Jamun trees (5) and Teak plants (10) | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 20.00 Lakhs | |
| Awards received | : 1. State level 'Best farmer' award Super star Raita by Vijaya Karnataka daily newspaper 2022-23 2. Best Farmer' award by Rotary Club, Bailhongal during 2023-24 Interventions of KVK in fostering NF | |
| Interventions of KVK in fostering NF | : • Training on Natural farming • Preparations of bio inputs for on farm production • Field visits to guide farmer • Member of Natural farming farmers group created by KVK | |



On campus training programme on Spice crops

ICAR-KLE Krishi Vigyan Kendra, Mattikopp organized oneday training programme on 'Improved production technologies and value addition of important spice crops of Belagavi district' in collaboration with Karnataka State Spices Development Board, Hubballi.

Mr. Praveen Yadahalli, Scientist (Hort.) in his introductory remarks said that India is at the forefront of the world in the production and use of spice crops, the use of spices not only increases the taste, colour and flavor of food, but also have potential to heal many of the diseases. Spices play an important role in our daily diet as our cooking start with addition of cumin seeds. Looking into the benefits of spice crops, the training aims at increasing the area under spice crops which fetches more price in the market as compared other crops.

Programme was inaugurated by Mr. Udaykumar M. Kadam, Assistant Director of Horticulture, Karnataka State Spices Development Board, Hubballi. In his inaugural address, he informed about the schemes and programs of the Spice Board for the farming community and emphasized on scope for value addition of different spices which can be

carried out by farmers for giving scope for startup programmes to establish themselves as an entrepreneur. The detailed project report (DPR) may be submitted to the Spice Board and approved farmers will be seeking subsidy as per Govt. of Karnataka norms.

Mrs. Sridevi Angadi, Senior Scientist and Head in her presidential address, encouraged the farmers to adopt new production technologies in Garlic as this crop is grown by majority of the farmers during Kharif season in Bailhongal taluk.





ICAR-KLE Krishi Vigyan Kendra, Belagavi-II

She assured the farmers to buy back their produce in association with Karnataka State Spices Development Board, Hubballi through Buyers and Sellers meet. She urged farmers to form farmers interest group (FIG) in each village to increase area under garlic production and further to establish Farmer Producer Organization for exporting of their produce.

Dr. Shashidhar Dodamani, Asst. Prof, College of Horticulture, Arabhavi explained improved production technologies of Garlic, Turmeric and other important spice crops of Belagavi district. Later, Dr. S. S. Hiremath, Scientist (Plant Protection), ICAR-KLE KVK, Mattikopp delivered information on management of pest and disease in spice crops.

At the end of the programme,

panel discussion was carried out by the experts along with farmers to seek their opinion on scope for large scale production with assured buy back. More than 100 farmers from different villages of the district participated in the programme.



School Soil Health Programme

As part of School Soil Health Programme, two orientation cum training programmes were organized in two selected schools in Belagavi district. These programme were held Kendriya Vidyalala, No.1, Air Force Station, Sambra on 17.04.2024 and at Ekalavya Model School, Tarag, Gokak taluk on 25.04.2024. S.M. Warad, Scientist (Soil Science), ICAR-KLE KVK, Mattikopp oriented and interacted with students and teachers on concept of soil health management, essential plant nutrients, importance of soil test and scientific method of soil sample collection.

Shri Sandeep, Principal, Miss Verma other two teachers of Kendriya Vidyalaya and Shri Manjunath, ATM, ATMA, participated during the soil health programme held at Kendriya Vidyalaya No.1 at Sambra. Shri A.S. Sabarad, Agriculture Officer, DATC, Arabhavai and Shri Basavantappa K. Jodger, Principal and other two teachers participated and coordinated during the programme held at Ekalavya Model School at Tarag. During these events, students and in-charge teachers collected soil samples for analysis under the programme.





ICAR-Krishi Vigyan Kendra, Bengaluru Rural District




KVK BENGALURU RURAL DISTRICT TECHNOLOGY

(Promotion of Jack fruit based products through Commodity Based Association)

Salient Features of technology:

Jack fruit is one of the important horticulture crop of Bengaluru Rural District where farmers earlier obtain low income due to no processing and value addition to crop. After KVK intervention, KVK formed CBA for Jack fruit growing farmers and provided necessary training and equipment to farmers for processing & value addition. Presently the CBA earns Rs. 20,00,000 to 22,00,000 per annum through selling value added products like chips, packed fruits etc., in different forums and export to many other places.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Bengaluru Rural District |  |
| Name of the NF Farmer | : Sri M.C. Raju | |
| Address with Contact No. | : S/o Chikkanna Tubagere Hobli, Doddaballapura Taluk Bengaluru Rural District - 561205 Cell: 9743570839 | |
| Landholding | : Total : 3.3 ac Under NF : 2.3 ac | |
| Farming situation | : Rainfed: 2.3 ac Irrigated: 1.0 ac | |
| Natural Farming adopted in crops | : Silver oak – 25, Butter fruit – 50, Cashew – 55, Meliadubia– 120, Jamun – 23, Dates – 12, Curry leaf-30, Custard apple – 35, Teak-5, Areca – 6, Pongamia-15, Coconut – 8, Banana-25, Jasmine – 40, mulberry plants-450, different varieties of Jack-25 and also growing spices like cloves, cardamom, pepper, fig, ginger, medicinal plants, fruits and also vegetables are growing under Natural farming. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 4 Lakhs | |
| Awards received | : 1. "AdarshaKrishikaPrashasti" award from 'Vishwa Kannada Sahithyamattu Samskruthikasamsthe' during 2021-22. 2. Sahithya KrishiPrashasti - 2022' Award from Sathya Shanthaprathishtana (Reg.) during 2022. | |
| Interventions of KVK in fostering NF | : Training on Natural farming, preparations of bio inputs in their farm only. | |





ICAR-Krishi Vigyan Kendra, Bengaluru Rural District

Examination for One year Diploma (Agri.) under Distance Education

ICAR – KrishiVigyan Kendra, Bengaluru Rural District organized second semester examination for One year Diploma (Agri.) students under distance education mode in collaboration with Co-ordinator, Distance Education Unit, SAMETI (South), University of Agricultural Sciences,

Bangalore from 22.04.2024 to 29.04.2024 (six days). The examinations were conducted for 30 enrolled students. Dr.Dharshini, G.M., Scientist (Plant Protection) coordinated the Diploma (Agri.) contact classes and examinations of both the semesters during the year 2023-24.



Field visit to the problematic areca plantation

Dr. B.G. Hanumanthara, Senior Scientist & Head, Dr. Ramegowda, H.V., Scientist (Crop physiology), Dr. Sagar, S. Pujar, Scientist (Agril. Extension) of ICAR – KrishiVigyan Kendra, Bengaluru Rural District visited the problematic Areca nut field at Malohalli village of Doddaballapurataluk on 25.04.2024 and it was found that, the micro nutrients viz., potash and boron were deficit along with the infestation of

spindle bugs, scaly insects and aphids. In order to avoid the economic losses the farmers were suggested to spray of imidachloprid @ 5 ml/L. In addition to this farmers were suggested to apply lime to the stem of areca palms to avoid the effect of the increasing temperature. Further, green manuring crops like diancha of cowpea were suggested as intercrop.





ICAR-Krishi Vigyan Kendra, Bidar




KVK BIDAR TECHNOLOGY

(Transplanting method: Unleashing the Red Gram potential yield)

Salient Features of technology:

Redgram transplanting technology was standardized at KVK Bidar and obtained an average seed yield of 29.70 q/ha and net income of Rs 107,240/ha as compared traditional practices with average yield of 17.5 q/ha and net income of Rs 58,500/ha during 2009-10 to 2014-15 through FLDs. Further, data revealed that there was increase in yield from 69.71% to 138% in transplanting technology as compared to farmers traditional practice. Over the years of efforts, ICAR-KVK, Bidar has standardized the Redgram transplanting technology by involving healthy seedlings preparation of 30 days old and transplanting these seedlings in the main field. Adoption of Redgram transplanting technology enabled farmers to get unprecedented yields that they never experienced before.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Bidar |  |
| Name of the NF Farmer | : Smt. Ambika W/o Mallikarjun Malegaon | |
| Address with Contact No. | : W/o Mallikarjun R/o Aurad (S), Tq. & Dist. Bidar, Cell: 72599 51996 | |
| Landholding | : Total : 07 ac Under NF : 07 ac | |
| Farming situation | : Rain fed: 00 ac Irrigated: 07 ac | |
| Natural Farming adopted in crops | : Ginger, Sugarcane, Chilli, Tomato, Drumstick, Paddy, Sorghum, Red gram. | |
| Innovations adopted | : Ginger Intercropped with Drumstick | |
| Annual Net Income from NF | : Agril. Crops Rs. 2,22,000 & from Dairy 40,000/- | |
| Awards received | : 1. "Bidar District Best Farm Women-2022" from University of Agricultural Sciences, Raichur -on 10-12 Jan, 2023 during Krishi Mela 2023-24 2. Best farm women Award - From District ROTARY Club BIDAR | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Preparations of bio inputs in their farm only like ASTRAS and marketing of their produce. | |





ICAR-Krishi Vigyan Kendra, Bidar

"ATARI Director Dr. Venkatasubramanian Sir Delighted by ICAR-KVK Bidar's Innovations"

On the 18th of April 2024, we were honored by the visit of our esteemed ATARI Director Dr. Venkatasubramanian Sir to ICAR - KVK Bidar. His presence brought a wave of joy and encouragement as he expressed his delight during the visit. One of the highlights was his happiness upon visiting Ruchit (B) Bhasan enterprises, where he admired the plethora of products developed under the technical guidance of KVK Bidar. He particularly appreciated seeing these products destined for the Hyderabad market adorned with our Kisan Sammrudhhi logo, signifying quality and prosperity for farmers.

During his tour of the KVK campus, Dr. Venkatasubramanian Sir witnessed impressive demo units showcasing various innovative products. Among these, he specifically mentioned his pleasure in observing the enriched vermicompost product, proudly bearing the Kisan Sammrudhhi logo. Such recognition from a respected authority like Dr. Venkatasubramanian sir not only validates our efforts but also motivates us to continue excelling in our endeavors. It reinforces the belief that collaboration and technical guidance can truly pave the way for meaningful progress in agricultural practices, benefiting both farmers and consumers alike.



Contributors: Mrs. Jyothi S Kamthane , Dr. Sunilkumar N M, Ningadalli Mallikarjun & Dr. Gnyandev Bulla





ICAR Krishi Vigyan Kendra, Chamarajanagara



KVK CHAMARAJANAGARA TECHNOLOGY (IISR Prathibha – a high yielding, quality turmeric variety)

Salient Features of technology:

IISR Prathibha is a plumpy and bold rhizome variety with fibre content, resistant to root knot nematode, having a good morphological characters viz., more number of primaries, reddish yellow rhizome core, reddish brown colour of scale, better yield and quality viz., 39.12 tonnes of fresh rhizomes/ha, curcumin 6.52 % and a medium duration (225 days) with good grower and market preference.

Horizontal spread: 4189 ha

Vertical spread: 36 % increased yield

Output:

1. PPP mode seed production (2100 tonnes since 2018)
2. Pricing on quality basis (additional ₹.800 per 1 % additional curcumin content)
3. Contract farming by industries involved in curcumin business with growers

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Chamarajanagara | |
| Name of the NF Farmer | : Sri. Nataraju V. | |
| Address with Contact No. | : S/o Venkatachalaiah, Bandigowdanahally, Haradanahally Hobli, Chamarajanagara Taluk & District – 571 127, Mobile No.: 9448816109 | |
| Landholding | : 4 ac Under NF : 01 ac | |
| Farming situation | : Rainfed: 0 ac Irrigated: 04 ac | |
| Natural Farming adopted in crops | : Coconut – 40, Arecanut – 330, Avocado – 8, Drumstick – 20, Yalakki Banana – 300, Madaranga Banana – 20, Casuarina – 30, Bamboo – 06, Sweet potato – 110 plants (4 years), Desi Red Gram | |
| Innovations adopted | : Providing Bioinputs through Microsprinkler | |
| Annual Net Income from NF | : Rs. 1.4 Lakhs | |
| Awards received | : 1. Taluk Level best youth farmer – Krishimela 2017, UAS Bangalore 2. District level best horticulture farmer – 2022-23, ATMA, Chamarajanagara | |
| Interventions of KVK in fostering NF | : Training on agroforestry based farming system, natural farming, preparations of bio inputs, bee keeping and livestock management. | |





ICAR Krishi Vigyan Kendra, Chamarajanagara

SKILL TRAINING FOR RURAL YOUTH ON MASS PRODUCTION OF BIO-CONTROL AGENTS

One week skill based training programme was organized for selected and interested rural youth on mass production of Bio-control agents under Entrepreneurship Development Programme at ICAR-KVK, Chamarajanagara from 01-03-2024 to 07-03-2024. Dr. C Doreswamy, Special Officer, College of Agriculture, Chamarajanagara inaugurated the training programme. He emphasised the need and supply of quality bio-agents with scientific packing and labelling. Dr. B. Pampangouda, being the main resource person, detailed and demonstrated practical skills involved in mass production of Trichoderma, Psudomonas and Pacileomycis. Dr. Umashankar Kumar. N, Associate Professor (Plant Pathology) and specialised in nematology gave training on management of nematodes and production of suitable bio-agents for management of the same. Dr. Shivaray Navi, Associate Professor (Entomology) gave the training on management of insect and pests through biological means i.e., by use of parasitoids and predators. Dr. Yuvana, Assistant Professor (Microbiology) trained rural youth on handling of laboratory equipments in production of bio-agents.

Dr. Yogesh G.S, Senior Scientist and Head and Soil Scientist provided information through method demonstration on enrichment of manures using bio-agents. Dr. Chandrashekar S. Kallimani, Scientist (Sericulture) organised and managed the training programme. Pre and post training evaluation were conducted and feedback was collected from the trainees. Manuals and brochures on mass production of bio-agents were distributed to all participants along with the certificates. Smt. Hita Suvarna, DDM, NABARD and Dr. Nishanth, ADA (Technical) were the guests during the valedictory and they addressed the trainees on opportunities available under "Krishi Navodyama" scheme. As a part of the training, one day visit was organised to model organic farmer's field at Padaguru, Gundlupete taluk. Out of the 15 trainees, three have shown keen interest in starting own bio-agent production units. ICAR-KVK, Chamarajanagara is involved in hand holding support while establishing these units and during sale of the produce under the brand name 'Samruddhi'.

(Chandrashekar. S. Kallimani and Yogesh. GS)



Practical session on mass production of Bio-agents



Field day-Introduction of improved Field Bean variety HA-4

ICAR-KVK, Chamarajanagara organized and conducted a field day programme on introduction of improved Field Bean variety HA-4 at Muneshwara colony, Chamarajanagara taluk and district under tribal sub plan (TSP). Dr. Yogesh G.S, Senior Scientist and Head and Soil Scientist highlighted the features of Field Bean variety HA-4 released by UAS Bengaluru which is a photo-insensitive, high yielding (40-50 q/ha of green pods), flowering takes place under short day periods irrespective of planting time and short duration (85-90 days). He also emphasized about good agronomic practices like seed treatment, timely & line sowing, soil test based fertilizer application and need based plant protection measures. Dr. Deepa J, Scientist (Home Science) deliberated about the health benefits of field bean which contains good amount of protein for tissue development, dietary fibre

which aid to prevent degenerative diseases, contains iron that helps in maintenance of Hb level and about its value added products. Mr. Venkatesh representative from Agriculture Department (RSK, Chandakavadi) shared information regarding services and facilities available to take up soil and water conservation measures at field level. A total of 47 farmers/farm women participated in the programme and CEO of Shree Lakshmi Devi FPO, Veerayyanapura village was the chief guest. Progressive farmers Sri Shivaram Gowda and Narayana provided their feed back by saying good features of the variety that have resulted in a profitable yield. The participants were distributed a folder each regarding improved cultivation practices of field bean.

(Deepa. J and Yogesh. G.S)

Field day on improved field bean variety HA-4



Scientist deliberating improved cultivation practices of field bean





ICAR-KrishiVigyan Kendra, Chikkaballapura



KVK CHIKKABALLAPURA TECHNOLOGY (Cocoon biocraft – Waste to Wealth)

Salient Features of technology:

Cocoon biocraft is the craft prepared out of pierced cocoons which are not suitable for reeling. These biocraft are in high demand. Different biocraft include single flowers, single layer garland, reception garland, VIP garland, bouquets, frames, flower pots etc., This would aid in entrepreneurship development among the farm women.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-KrishiVigyan Kendra, Chikkaballapura |  |
| Name of the NF Farmer | : Sri. Vijay Kumar | |
| Address with Contact No. | : S/o T.K. Papaiah Tippenahalli Village, Sidlaghatta Taluk, Chikkaballapura District, Cell: 9449760832 | |
| Landholding | : Total : 06 ac Under NF : 4.5 ac | |
| Farming situation | : Rainfed: 0 ac, Irrigated: 06 ac | |
| Natural Farming adopted in crops | : Jamoon 65 trees, Cashew 45 trees, 25 Meliadubia trees, Subabool 500 plants, Glyricidia 500 plants, Jack Fruit 05 trees, Papaya 10 plants, Mulberry 1.5 acres, Fodder 0.25 acre, Mixed Fruit Orchard 0.25 acre, Bitter Gourd 0.5 acre and Snake Gourd 0.5 acre. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 3.00 Lakhs | |
| Awards received | : 1. "District level Best farmer" award from Department of Agriculture, Chikkaballapura 2018-19. 2. Super Star Farmer' Award by Vijaya Karnataka during 2022 | |
| Interventions of KVK in fostering NF | : Training on Natural farming and preparation of liquid bio inputs. | |



Scientists from ICAR-KrishiVigyan Kendra, Chikkaballapura visited Mango field. Dr. Praveenakumar, Scientist (Horticulture) and Dr. Swathi, Scientist (Plant Protection) visited and suggested the integrated management practices for leaf hopper in mango.





ICAR-KrishiVigyan Kendra, Chikkamagaluru




KVK CHIKKAMAGALURU TECHNOLOGY (Blast Resistant Paddy Variety - KPR-1)

Salient Features of technology :

KPR-1 paddy variety yield more @ 22-25% more than the farmers adopting paddy variety. Farmers happy to use High yielding blast resistance variety KPR 1. It is Linked to seed chain in Agril. Department and easily acceptable and got higher yield and it horizontally spread the area of 2206.4 ha in the district and neighboring district.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-KrishiVigyan Kendra, Chikkamagaluru |  |
| Name of the NF Farmer | : Sri. Chandrashekar Narayanapura | |
| Address with Contact No. | : S/o N.K. Shivarudrappa Mugthihalli, Chikkamagaluru dist. Cell: 9448484024 | |
| Landholding | : Total : 12 ac Under NF : 07 ac | |
| Farming situation | : Rainfed: 01 ac Irrigated: 11 ac | |
| Natural Farming adopted in crops | : Arecanut, Coffee, Cocoa, Vegetables, Kitchen Garden, Paddy, Fodder | |
| Innovations adopted | : • Developed natural water harvesting structure • Jeevamrutha filtration techniques to avoid blocking and for easy movement through drip pipes | |
| Annual Net Income from NF | : Rs. 8 Lakhs | |
| Awards received | : 1. "Rajyotsava" award from GOK during 2022 2. Krishi Pandith' award from GOK during 2022 | |
| Interventions of KVK in fostering NF | : • Technology for preparation of compost from areca husk • Intercropping of cocoa in arecanut • Training on preparation and use of bio-inputs • Recycling of agricultural waste to minimize the production cost • Established as a natural farming model farm to educate the State and National level farmers | |





ICAR-KrishiVigyan Kendra, Chikkamagaluru

Capacity building programme on Integrated pest & disease management in coconut

One-day capacity building programme on integrated pest and disease management in coconut was organized on 16.04.2024 by I.C.A.R- KVK, Chikkamagaluru.

Dr.Ullasa M.Y., Scientist (Agronomy) provide the information to the participants that, the coconut palm is referred to as 'Kalpavriksha' - the 'tree of heaven' as each and every part of the palm is useful to mankind in one way or other. It provides food, drink, fuel and timber. Millions of families in India depend on coconut for their livelihood either directly or indirectly India ranks third in area and production of coconut in the world.

The four southern states viz . Kerala, Tamil Nadu, Karnataka and Andhra Pradesh are the major coconut producing states in India accounting for more than 90 per cent of area and production. There is a great scope for enhancing the productivity of coconut through adoption of scientific



cultivation technologies, which are described here under. Coconut is propagated through seedlings raised from selected seednuts. Generally 9 to 12 month old seedlings are used for planting. Select seedlings, which have 6-8 leaves and 10-12 cm collar girth when they are 9-12 month old. Early splitting of leaves is another criteria in the selection of coconut seedling.

Dr.SuchithraKumari M.H., Scientist (Plant Protection) delivered the lecture about major pests that leads to reduce the yield of coconut, the major pests affect the coconut palm are the rhinoceros beetle, the red palm weevil, the black headed caterpillar, the cockchafer beetle and the coreid bug by adopting scientific management practices the farmers can manage the about said pests thereby get the potential yield in coconut farming, the programme was witnessed by the 38 farmer and farm women and got the scientific production and protection technologies of coconut farming





ICAR-Krishi Vigyan Kendra, Chitradurga



KVK CHITRADURGA TECHNOLOGY (ONION SEED PRODUCTION – For "Self-Reliance for farmers' livelihood)

Salient Features of technology:

Hosakundur village of HosdurgaTq. having 180 farm families living in this village out of 180 families 110 farm families are practicing Onion seed production rather than bulb production. Farmer Participatory onion seed production activity includes scientific method of seed production, providing breeder seeds of improved varieties - Arka kalyan, Bheema Super, Bheema Shakti and Bheema Dark Red with nuclear seeds from Directorate of Onion and Garlic Research (DOGR), Pune. Krishi Vigyan Kendra, Chitradurga by involving Karnataka State Seed and Organic certification agency (KSSCA) farmers were trained on seed certification procedures, policies and linkages with public sector. Onion seed production has high revenue generative activity with 28.8 per cent increase in income than bulb crop.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Chitradurga | |
| Name of the NF Farmer | : Sri. Gnaneswara K.R. | |
| Address with Contact No. | : S/o Rudramuni K.M. Tq. & Dist. Chitradurga, Cell: 9916061765 | |
| Landholding | : Total: 1.5ac Under NF :1.5ac | |
| Farming situation | : Rainfed: 0 Irrigated: 1.5ac | |
| Natural Farming adopted in crops | : Lemon -100, Jamun-2, Jack-3, Mango-2, Sapota -2, Star fruit -2, Papaya -25, Coconut - 15, Drumstick-8, Banana -80, Ellikayi - 4, Amla- 4, Guava -2, Pomegranate-2, Curry leaf -10, Areca -34, Desi Cow -25, Fig -2, Season based crops - Ground nut, cowpea, Field bean, Redgram, Ragi, Wheat, Vegetables | |
| Value added products | : Desi ghee, Desi butter, Cowdung dry cake Innovations adopted (Any two): Using Huli majjige as medicine, lemon juice medicine, Jeevamrutha, Ghana jeevamrutha, Dashaparni | |
| Annual Net Income from NF | : Rs. 5 Lakhs | |
| Awards received | : 1. "Udayonmukha Krushi Panditha" Award from Government of Karnataka during 2023 2. Krishi Rathna Award from ATMA, Department of Agriculture, Chitradurgadist during 2020 3. Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka during 2020) Interventions of KVK in fostering NF | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Preparations of bio inputs in their farm only and season and market based cultivation. | |





ICAR-Krishi Vigyan Kendra, Chitradurga

Workshop on energy efficient pump sets and water conservation awareness

ICAR-Krishi Vigyan Kendra Chitradurga organized a workshop on energy efficient pumpsets and water conservation awareness programme for farmers and farm youth on 24-04-2024 and 25-04-2024.

Dr. O. Kumara, Senior Scientist and Head, KVK inaugurated the programme and during his inaugural speech he discussed about the importance of energy saving by adopting efficient pumpsets in the farmers field and he also discussed about the various agronomical technologies that can be used for conservation of soil moisture such as contour ploughing, mulching, ploughing across the slope, summer ploughing, cropping practices for water conservation and also the ways and means to save energy techniques. etc.,

Mr. Vishwanath, Field Officer, Netafim, Chitradurga briefed about the Motor usage and Power usage. He discussed about



domestic pumpsets with BEE Star label are more energy efficient and help in saving electricity up to 30% and suggested the use of variable pump drive, usage of well maintained tractors and other agricultural implements, explained about safety and dust protection through the use of automation technology.

Dr. Rajashekar Barker, Assistant Professor, (Agril. Engineering), College of Horticulture, Hiriyur was participated in the programme as resource person and delivered a guest lecture on efficient usage of energy by adopting some of the techniques such as energy efficient lighting, maintaining irrigation system, optimizing the design of irrigation system, testing and maintenance of irrigation pumps etc.

All the scientists of KVK and around 50 farmers on 24th April 2024 and 60 farmers on 25th April 2024 from various villages of Chitradurga have participated in the programme.





ICAR-Krishi Vigyan Kendra, Dakshina Kannada



KVK DAKSHINA KANNADA TECHNOLOGY

(Popularization of Swarnadhara Poultry Breed in Dakshina Kannada District)

Salient Features of technology :

Backyard poultry is one of the feasible options for sustainable livelihoods to small and marginal farmers of the Dakshina Kannada District. The increasing demand for the poultry meat and Egg as a source of animal protein and for family income generation leads to introduction of Swarnadhara Poultry breed (developed by KVAFSU, Bidar) is a dual purpose breed which has high egg production potential along with better growth performance compared to other local varieties in the coastal region of Karnataka.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Dakshina Kannada Mangaluru | |
| Name of the NF Farmer | : Sri Krishna Naik | |
| Address with Contact No. | : S/o Shivappa Naik, 5-137, Sarolimoole house, Moodambailu post Punacha village, Bantwal Taluk DK-574206, Cell: 9483407446 | |
| Landholding | : Total : 3.24Ac Under NF : 2.5 Ac | |
| Farming situation | : Rainfed: 3.24 Ac Irrigated: 3.24 Ac | |
| Natural Farming adopted in crops | : Arecanut - 200 plants, Coconut - 80 plants, Pepper - 25 plants, Banana - 28 plants, Cashew - 100 plants, Cattle (Cross breed)-03 Nos. Note : NF initiated during February 2024. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : NF initiated | |
| Awards received | : -- | |
| Interventions of KVK in fostering NF | : KVK conducted Capacity Building Programme on Natural farming and Method demonstration on preparation of Jeevamrutha. | |





ICAR-Krishi Vigyan Kendra, Dakshina Kannada

Capacity Development Programme for students under School Soil Health Programme

ICAR- KrishiVigyan Kendra, Dakshina Kannada in association with KSDA, Dakshina Kannada and JNV School, Mudipu organized capacity development programme for students on 'Importance of soil testing and method of soil sampling' on 17.04.2024 at JNV School, Mudipu under School Soil Health Programme. There were one hundred and twenty-eight students participated in the programme out of which forty (class XII) students registered under this programme.. Dr. Mallikarjuna L. Scientist (Soil Science) detailed importance of soil in agriculture and objectives of soil testing

and organized method demonstration of soil sampling in the vegetable garden. JNV School Principal, P. Rajesh, Vice Principal, Rekha Ashok, Biology lecturer Nikhil Kumar M. were present during the programme and expressed gratefulness for selecting their school in the district. Block technology manager of Bantwal taluk Deeksha P C was participated as representative of district agriculture department.

- Contributors: 1) **Mallikarjuna L** Scientist (Soil Science)
2) **T J Ramesha** Senior Scientist and Head



Live TV programme on 'Climate change impact on Agriculture'

ICAR- KrishiVigyan Kendra, Dakshina Kannada scientists, Dr. Mallikarjuna L. Scientist (Soil Science) and Dr. Kedarnath Scientist (Plant Protection) were participated in local NammaKudla channel live TV programme 'Krishi-Khushi' on 'Effect of rising high temperature on Agriculture' on 24.04.2024. During the discussions in the programme provided information to farming community on reasons of global warming and its effects on crop growth and yield, adoptive measures like climate resilient agriculture, environment friendly lifestyle, traditional methods to curb the global warming and precautionary measures to minimize the crop loss due to disease outbreaks. Progressive youth farmer Rohith Edwin D'souza was also participated in this programme.





ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere



KVK DAVANAGERE TECHNOLOGY (Banana Special)

Salient Features of technology :

Banana special is a micro nutrient mixture consists of, Fe, Zn, Cu, S, B, Mn and Mo specifically for banana crop. ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere initiated frontline demonstration during 2008-09 to 2023-24. The spray schedule is 5g/l. 5 times starting from 5th month onwards at one month interval, which enhances the average yield to atune of 28.41%. KVK purchased the technology from ICAR-IIHR, Bengaluru and started producing the mixture at Krishi Vigyan Kendra level with quality standards.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

Name of the KVK : ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere
 Name of the NF Farmer : Mr. Raghava
 Address with Contact No. : 'Aikanthika', Mallanayakanahalli, Guddadahalli post Hariahar Tq. Davanagere district Pincode: 577530 Mob: 9448923773
 Landholding : Total : 45 acre Under NF : 45 acre
 Farming situation : Irrigated
 Natural Farming adopted in crops : **FIELD CROPS**



Rice (*Oryza sativa*), Maize (*Zea mays*), Sweet corn (*Zea mays* convar. *saccharata* var. *rugosa*), Pop corn (*Zea mays* *everta*), Pigeon pea (*Cajanuscajan*) and Sorghum (*Sorghum nitidum*).

HORTICULTURAL CROPS

FRUITS : Mango (*Mangifera indica*), Guava (*Psidium guajava*), Papaya (*Carica papaya*), Jackfruit (*Artocarpus heterophyllus*), Sapota (*Manilkara achras*), Common lime (*Citrus aurantifolia*), Scented lime, Balaji lime, All season lime, Lemon (*Citrus limon*) and other fruits.

VEGETABLES : Jack bean, Cluster bean, French bean, Hyacinth bean, Sword bean, Yard long bean, Winged bean, Cucumber, Pumpkin, gourds and other vegetables.

TUBERS: Colocasia (*Colocasia esculenta*), Ginger (*Zingiber officinale*), Turmeric (*Curcuma longa*), Elephant foot yam (*Amorphophallus conopsea*) and other tubers.

SPICES: Vanilla (*Vanilla planifolia*), Curry leaf (*Murraya koenigii*), Nutmeg (*Myristica fragrans*), Cinnamon (*Cinnamomum zeylanicum*) and other spices.

MEDICINAL & AROMATIC CROPS: Sacred Basil (*Ocimum sanctum*), Indian black basil (*Ocimum tenuiflorum*), Sweet basil (*Ocimum tenuiflorum*), seed-under-leaf (*Phyllanthus niruri*), Aloe vera (*Aloe barbadensis*) and other crops.

FODDER / OTHER CROPS: Velvet beans [*Mucuna sativoides* (white seeded), *Mucuna purpurea* (Black seeded)], Puereria (*Pueraria phaseoloides*) and Sannhemp (*Crotalaria juncea*).

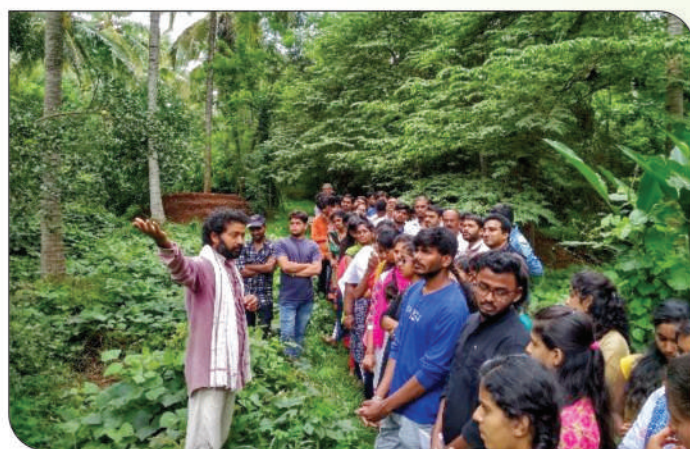
AGRO-FORESTRY : Coconut (*Cocos nucifera*), Arecanut (*Areca catechu*), Cocoa (*Theobroma cacao*), Henna (*Lawsania alba* / *inermis*), Neem (*Azadirachta indica*), Pipal tree (*Ficus religiosa*)





ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere

Innovations adopted : Marketing of his produces through Online
 Annual Net Income from NF : Rs. 10,50,000/-
 Awards received : 1. Karnataka Rajyotsava Award by Davanagere District Administration during 2022
 2. Best Farmer from UAS (B) during 2014.
 Interventions of KVK in fostering NF : 1. Introduction of Bio-diversity species 2. Created Marketing channels for his produces through Saturday organic Bazar since 2013 and also other melas organized by KVK.
 3. Mr. Raghav has been invited to KVK in all the Natural farming training, Workshops organized by KVK.



Special Orientation on Farm Science Courses for PUC Science Students

ICAR-TaralabaluKrishiVigyan Kendra conducted special orientation training on Farm Science Courses for the PUC passed students at KrishiVigyan Kendra campus. More than 150 students from 11 districts participated in orientation programme. Mr. Basavanagowda M.G., Horticulture Sinusitis took the lead in conducting this event with the guidance of Senior Scientist Cum Head, Dr. Devaraja T.N. Mr. Pradeep Patil, Manager, Canara Bank inaugurated the event and motivated the students about the opportunities in

the banking sector. Mr. Basavanagowda M.G. delivered the lecture on Farm Science Universities, career opportunities after the degree programme, CET option and choice entry processes. Special exhibition of agricultural products was arranged during the event.





ICAR-Krishi Vigyan Kendra, Dharwad




KVK DHARWAD TECHNOLOGY (ARKA MANGO SPECIAL – A Micronutrient Mixture)

Salient Features of technology :

Arka Mango Special (Foliar Spray Formulation): Consists of micronutrients like Zn, B, Mn, Fe and Cu), this formulation is used as foliar spray @ 75 g + 1 lemon fruit juice + 1 shampoo sachet in 15 litres of water in plastic bucket and mix thoroughly before spraying. Mango special spray is done 2 times (October and November) before flowering and 2 times (January and February) after flowering. Use upto 8 kg of mango special for 1 acre mango crop which helps to increase yield by 15-20% and helps in production of quality mango fruits.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Dharwad |  |
| Name of the NF Farmer | : Shri. Uttam Annasab Dadugol | |
| Address with Contact No. | : S/o Annasab Dadugol R/o Kalasanakoppa, At post: Gambhyapur, Tq. : Kalaghatagi & Dist. Dharwad Cell: 9845558214 | |
| Landholding | : Total: 16 ac Under NF: 08 ac | |
| Farming situation | : Rainfed: 06 ac Irrigated: 10 ac | |
| Natural Farming adopted in crops | : 2 acre Mango (Alphonso) – 80 plants, 0.5 acre Poly House within that 5 guntas Tomato, 5 guntas Beans, 5 guntas Bitter gourd, 5 guntas Cluster beans. 1 acre Maize during kharif followed by Horse gram during rabi, 10 guntas Marigold, Sugarcane in 6 acres. He is also rearing 30 goats, 50 poultry birds, 2 honey bees colonies, fish rearing in farm pond size 30 mtr X 30 mtr. He has 3 buffaloes, 2 cows and 2 bullocks. He is making vermicompost from the FYM and crop residues generated from his own lands. | |
| Innovations adopted | : Drip fertigation in Sugarcane. Goat rearing on 1st floor (top portion) and poultry birds on ground floor. Fish rearing in the farm pond (rain water harvesting structure) Cultivation under Poly house. | |
| Annual Net Income from NF | : Rs. 12 Lakhs | |
| Awards received | : “District Level Best farmer” under ATMA, Department of Agriculture, Dharwad district during 2023-24. | |
| Interventions of KVK in fostering NF | : Training on Goat rearing, Natural farming, Agro-forestry based farming system, Preparations of bio inputs in their farm only and market based cultivation under poly house system. | |





ICAR-Krishi Vigyan Kendra, Dharwad

Training programme on DAESI

The course on Diploma in Agriculture Extension Service for input dealer is in progress at ICAR-KVK, Dharwad. During II fortnight of April 2024, two DAESI classes were conducted on 18.04.2024 and 25.04.2024 at ICAR-KVK, Dharwad. On 18.04.2024, Dr. M. Gopal, Professor and State Nodal Officer DAESI, UAS, Dharwad delivered lecture on "Agricultural Journalism" and Dr. R. H. Patil, Head, Dept. Agricultural Meteorology, UAS, Dharwad delivered lecture on "Weather parameters and their impact on agricultural production and Relevance of Agro meteorological information for crop production" to 38 input dealers. On 25.04.2024, Dr. D. N. Kambrekar, Senior Scientist and Head, ICAR-KVK, Dharwad delivered lecture on "Harmful Effect of Indiscriminate use of Agricultural inputs and Pest Management in Major crops of Dharwad District" and Dr. U. K. Shanwad, Scientist



(Agronomy), ICAR-KVK, Dharwad delivered lecture on "Crop Planning in Rainfed Areas and Natural Resource Management for Dryland Agriculture" and interacted with 36 input dealers.

Participation of KVK Scientist as resource person in International Seed Day Celebration

Dr. U. K. Shanwad, Scientist (Agronomy), ICAR-KVK, Dharwad participated as resource person and explained about the "Importance of oilseeds, edible and non-edible, PUFA and MUFA, secondary agriculture, FPOs and future market etc." during International Seed Day Celebration - 2024 organized by ADM Agro Industries Pvt. Ltd., Belur on 26.04.2024. Dr. G. K. Naidu, Scientist (Genetics and Plant Breeding), AICRP on Soybean, MARS, UAS, Dharwad briefed about the information on Soybean and its varieties. Around 51 registered farmers and farm women of ADM Agro-Industries Pvt. Ltd., Belur participated in the programme.



Contributors:

Dr. D. N. Kambrekar, Senior Scientist and Head, **Dr. U. K. Shanwad**, Scientist (Agronomy),
Dr. Praveen T. Goroji, Sr. Technical Officer (Lab.),
Smt. Shailaja N. Galagali, Technical Officer (Computer), ICAR-KVK, Dharwad.





ICAR-Krishi Vigyan Kendra, Narakkal, Ernakulam



KVK ERNAKULAM TECHNOLOGY (Soil less planting media – A waste to wealth initiative)

Salient Features of technology:

Generating wealth from waste is a flagship programme envisaged in the Swachh Bharath Abhiyan of Government of India. The Soil less planting media is a mixture of composted pressmud (Sugar mill residue), Coir-pith (Coir industry residue) and Cow dung powder (Farm residue) enriched with Neem cake and bio control agents. This nutritionally rich mixture is proven as an excellent planting media for urban horticulture. Scarcity of soil is a great issue faced by urban farmers in Kerala.

KVK Ernakulam Hosts Orientation for Pearlsport Fish Farmers

On April 19th, 2024, ICAR KVK Ernakulam organized a comprehensive orientation session tailored for Pearlsport fish farmers, shedding light on essential marketing strategies for breeders. Dr. P.A. Vikas, Subject Matter Specialist-Fisheries, spearheaded the session, underscoring the pivotal role of social media platforms in facilitating fish seed marketing. The event extended beyond classroom discussions, featuring on-site visits to farmers' breeding ponds.

convening of the annual general body meeting of the breeders association.



Here, expert advice was dispensed on implementing specialized management techniques to mitigate the adverse effects of severe summer heat on aquaculture farms. Moreover, the day's agenda encompassed the

KVK Ernakulam Collaborates with Koratty Service Cooperative Bank's Malsyadhan Initiative

In a significant collaboration, KVK Ernakulam partnered with the Koratty Service Cooperative Bank's Malsyadhan initiative, marking its participation in a seminar held on April

30th, 2024. The Malsyadhan project, bolstered by NABARD funding, is geared towards elevating the marketability of inland farmers' produce, with a specific focus on securing premium prices through the Koratty Mart. Drawing farmers from three panchayats, the event served as a platform for robust discussions. Dr. P.A. Vikas, Subject Matter Specialist-Fisheries at KVK Ernakulam, led a seminar that delved into the future trajectory of inland aquaculture. Farmers voiced concerns regarding challenges such as escalating feed costs, seed quality deficiencies, and marketing hurdles. In response, the bank unveiled plans to facilitate the purchase of farmers' produce for subsequent marketing endeavors through the proposed mart.





ICAR-K. H. Patil Krishi Vigyan Kendra, Gadag




KVK GADAG TECHNOLOGY

(SPV – 2217: A high yielding and disease resistant variety of Rabi Sorghum)

Salient Features of technology:

SPV-2217 is a high yielding and charcoal stem rot resistant variety of Rabi Sorghum. It also exhibits less lodging during harvesting. ICAR-KVK, Gadag has conducted demonstration of SPV 2217 variety in more than 228 ha covering 570 farmers in a span of six years. There has been spread of this technology in 12435 ha involving 1473 farmers in last six years and net returns of these farmers increased by about 44.60%.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-K. H. Patil Krishi Vigyan Kendra, Gadag |  |
| Name of the NF Farmer | : Dr. Basavaraj Chandrappa Navi | |
| Address with Contact No. | : At post: Suganahalli village, Tq. Shirahatti & Dist. Gadag Cell: 7259968715 | |
| Landholding | : Total: 07.50 acres Under NF: 07.50 acres | |
| Farming situation | : Rainfed: 04.50 acres Irrigated: 03.00 acres | |
| Natural Farming adopted in crops | : Irrigated: 100 Coconut trees intercropped with Vegetables and Mulberry intercropped with Field Crops. Rainfed: 80 Sapota, 40 Mango, 50 Drumsticks, 100 teak, 25 Guava, 50 Cashew intercropped with Millets, Pulses and Oilseeds and 100 Neem trees along the bunds. | |
| Innovations adopted | : 1. Bio-digester, 2. Generation of Biogas | |
| Annual Net Income from NF | : Rs. 6 Lakhs | |
| Awards received | : 1. "Honorary Doctorate Award" from Asia International Culture Research University, Kanyakumari, Tamilnadu state during 2023-24 2. Krishi Pandit Award (ATMA) Karnataka State Department of Agriculture (KSDA), Bengaluru during 2020. | |
| Interventions of KVK in fostering NF | : Capacity building programmes on Natural farming, production of organic inputs, Agri+Horti+Agroforestry based Integrated Farming System. | |



Dr. Timmappa, Principal Scientist, ATARI, Bengaluru visited Dr. Basavaraj Navi's Farm



Dr. Basavaraj Navi explaining natural farming practices in mulberry crop





ICAR-K. H. Patil Krishi Vigyan Kendra, Gadag

Training and awareness programme on "Energy efficient Pumps and Water Conservation"

One day Training cum Awareness Programme on "Energy Efficient Pumps and Water Conservation" was organized at ICAR-Krishi Vigyan Kendra, Hulkoti, Gadag District in association with Karnataka Renewable Energy Development Limited, Bengaluru. Dr. Sudha V. Mankani, Senior Scientist & Head, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti inaugurated the programme and addressed the participants about the importance of use of energy efficient pumps for irrigation and judicious use of irrigation water. Shri Vidyasagar, Area Manager, Coromandel International Limited spoke about importance of water conservation in agriculture and enlightened about soil nutrient management. Shri N.H.Bhandi, Subject Matter Specialist (Soil Science), ICAR-



K.H.Patil Krishi Vigyan Kendra, Hulkoti addressed the gathering and sensitised about the soil and water conservation in dryland agriculture. Shri Naganagouda Y. Kagadal, Progressive Farmer from Khanapur village of

Naragund Taluk graced the function as guest of honour. Dr.Vinayaka Niranjan, Subject Matter Specialist (Agri. Engineering) welcomed the gathering and anchored the programme.

Smt. Hemavati R. Hiregoudar, Subject Matter Specialist (Horticulture) extended the vote of thanks. Totally 58 participants including farmers, pump technicians and farm women attended the programme. After the inaugural programme, technical sessions were conducted on Energy Efficient Pumps and Water Conservation.



Contributors:

Dr. Vinayaka Niranjan, SMS (Ag. Engg.) and Dr. Sudha V. Mankani, Senior Scientist & Head (I/c)





ICAR-Krishi Vigyan Kendra, Hassan



KVK HASSAN TECHNOLOGY

(Apical rooted potato saplings (ARC) for seed tuber production)

Salient Features of technology:

The Apical Rooted Cuttings (ARC) is a technology where small portion of disease free mother tuber is collected and multiplied in growing media to produce plantlets. These plantlets are used as mother plants and transplanted to beds in nursery. The cuttings grown out of mother plants are replanted on the same beds. This process will continue upto 3 months where every mother plant provides 256 plants. The cuttings from these plants are planted in portrays and maintained upto 14 days till rooting and then transplanted to main field for seed production.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Hassan |  |
| Name of the NF Farmer | : Sri. Basavarajappa | |
| Address with Contact No. | : Santheshivara, Nuggeshalli Hobli, C. R. Ptana Taluk, Hassan District - 573131 Cell: 9482118587 | |
| Landholding | : Total : 06 ac Under NF : 06 ac | |
| Farming situation | : Rainfed: 02 ac Irrigated: 04 ac | |
| Natural Farming adopted in crops | : 50 teak, 30 drumstick tree, 1.5 acre coconut, 2 acre banana, mixed fruit orchard, 20 honeybee boxes, 1 acre arecanut | |
| Innovations adopted | : Trenching mulching technique | |
| Annual Net Income from NF | : Rs. 6 Lakhs | |
| Awards received | : 1. "District and taluk level Best farmer" award from Karnataka government and UAS (B) 2. National level best farmer award and Krishi Pandith award' from KSDA 3. Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka 4. Serving as a member at district level committees | |
| Interventions of KVK in fostering NF | : Training on Natural farming, apiary, compost production technologies, agri-horti based farming system, Preparations of natural farming bio inputs like beejamruth, jeevamrutha, ganajeevamrutha, againastra, brahmastra etc., in their farm. | |





ICAR-Krishi Vigyan Kendra, Hassan

School soil health Programme

ICAR-KVK, Hassan in collaboration with KSDA, Hassan, NRLM, Hassan and JNVV, Mavinakere jointly organized one day awareness programme on soil health management for school children's in JNVV, Mavinakere on 17-04-2024. During this programme students from class VI to XII and teachers were participated and they were trained on soil health management and organized for soil sample collection, testing and generation of soil health card through mobile application specially customized for school health programme.

As a part of this programme, a nearby village 55 farmers will going to select and soil samples will going to collect by the school students. Soil testing, soil health cards also going to generate by students and they will educated the farmers about the recommendation of soil health card for judicious use of fertilizer and crop production. In this programme ATMA, KVKs, SRLM, Krishi sakhi's and team of JNVV school teachers helped the school students in this campaign. The entire activity has been documented in the soil health card portal.



(Contributor: **Dr. Arunkumar, B. R.**, Scientist (Soil Science), KVK, Hassan)





ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti)



KVK HAVERI (HANUMANAMATTI) TECHNOLOGY

(THRICODERMA – used in agriculture to control soil-borne diseases and promote plant growth)

Salient Features of technology :

Trichoderma is bio control agent used to manage soil-borne diseases and some leaf and panicle diseases which is recommended as seed treatment (4g Kg of seeds) as well as soil application (2Kg in 200 Kg of FYM for one acres). Since inception KVK has produced 16.2 tonnequantity that spread more than 100ohaof lands of Haveri and adjacent districts of Karnataka for various crops.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

- Name of the KVK : ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti)
- Name of the NF Farmer : **Shri. Ramesh Jagati**
- Address with Contact No. : Village: Kalasur Tq– Savanur Dist: Haveri
- Landholding : Total: 05 ac Under NF : 05 ac
- Farming situation : Rainfed: 05ac Irrigated: 0 ac
- Natural Farming adopted in crops : Shri. Ramesh Jagati has been adopted improved cultivation and farming system practices for growing different agriculture and horticulture crops in his 5.0 acre land. He has maintained farm very well by putting bunds all along the farm with proper leveling and drainage system. He is cultivating diversified crops like field crops, horticultural crops and fodder crops, forest species (Teak,). Apart from this he also maintained improved milchanimals. On bunds side he planted forest species like teak trees.
- Innovations adopted : --
- Annual Net Income from NF : Rs. 2.5-3.0 Lakhs
- Awards received : --
- Interventions of KVK in fostering NF : Shri. Ramesh Jagati visited the KVK, Hanumanamatti to interact with Scientist. The scientists from KVK, Hanumanamatti visited his field and gave suitable suggestions about diversified cropping system.





ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti)

ICM in mango FLD field visit

Scientist (Horticulture) and scientist (Animal science), ICAR-KVK, Haveri visited mango FLD field on 22.04.2024 and made following observations. Low incidence of powdery mildew and leaf hopper had been registered in ICM practice, which reflected higher yield of 15-20 kg fruit per tree in 10 year

old plants with minimum premature drop of flowers and fruits. Further, low incidence of fruit flies was also noticed in ICM plot because of installation of fruit flies trap and same has been convinced to farmer.





ICAR-Krishi Vigyan Kendra, Santhanpara, Idukki




KVK SANTHANPARA, IDUKKI TECHNOLOGY

(Entomo Pathogenic Nematodes: A Boon in Small Cardamom Root Grub Management)

Salient Features of technology:

The product and process developed encompasses a novel WP formulation for infective juveniles of beneficial entomopathogenic nematodes which confers a shelf-life of 10-12 months at normal temperature and pressure, easy application and safety during transport, storage and application for biological control of white grubs and other soil insect pests. Soil application EPN powder formulation @ 5gm per L of water in soil at the base of small cardamom plant (@5L of EPN Liquid per plant which mean two lakhs to four lakhs Infected Juveniles (IJs) of EPN) the IJs of EPN comes out from the cadaver in the soil, search for root grub and kill them.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|----------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Bengaluru Rural District |  |
| Name of the NF Farmer | : Sri M.C. Raju | |
| Address with Contact No. | : S/o Chikkanna Tubagere Hobli, Doddaballapura Taluk Bengaluru Rural District - 561205 Cell: 9743570839 | |
| Landholding | : Total : 3.3 ac Under NF : 2.3 ac | |
| Farming situation | : Rainfed: 2.3 ac Irrigated: 1.0 ac | |
| Natural Farming adopted in crops | : Silver oak – 25, Butter fruit – 50, Cashew – 55, Meliadubia– 120, Jamun – 23, Dates – 12, Curry leaf-30, Custard apple – 35, Teak-5, Areca – 6, Pongamia-15, Coconut – 8, Banana-25, Jasmine – 40, mulberry plants-450, different varieties of Jack-25 and also growing spices like cloves, cardamom, pepper, fig, ginger, medicinal plants, fruits and also vegetables are growing under Natural farming. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 4 Lakhs | |
| Awards received | : 1. "AdarshaKrishikaPrashasti" award from 'Vishwa Kannada Sahithyamattu Samskruthikasamsthe' during 2021-22. 2. Sahithya KrishikaPrashasti - 2022' Award from Sathya Shanthaprathishtana (Reg.) during 2022. | |

Interventions of KVK in fostering NF : Training on Natural farming, preparations of bio inputs in their farm only.





ICAR-KrishiVigyan Kendra, Santhanpara, Idukki

Field day of "High yielding variety of Paddy KAU Manuvarna"

Field day of the Front Line Demonstration on "High yielding variety of paddy KAU Manuvarna" implemented by KVK Idukki was conducted on 04.04.2024 at RajakkadPanchayath. The paddy variety KAU Manuvarna is a medium duration of 128 – 138 days old variety and it is having the characters of non-lodging and non-shattering, high tolerance to salinity, higher number of productive tillers/ plant, good milling and cooking qualities, tolerance to stem borer, leaf folder, gall midge, high

amylose content and brown rice. The seed and the critical input were supplied to five farmers for conducting the demonstration in 2 ha, also provided training and visited their field regularly. The FLD farmers expressed their opinion about the features and suitability of the variety to the Idukki paddy growers. Field day was conducted by Ashiba A, SMS Agronomy and Preethu K Paul, SMS Agricultural Extension, ICAR- KrishiVigyan Kendra, Idukki.



Preethu K Paul, SMS Agricultural Extension,
Ashiba A, SMS Agronomy,
ICAR- KrishiVigyan Kendra, Idukki





ICAR-Krishi Vigyan Kendra, Kalaburagi-I




KVK KALABURAGI-I TECHNOLOGY

(PULSE MAGIC – A climate smart product to reduce flower drop in pulses)

Salient Features of technology:

Pulse Magic (which consists of major and micronutrients along with Plant Growth Regulator), which helps in yield increment to the extent of 15-20%, if spraying is carried as per recommended dosage (10g/l) and time i.e., at 50% flowering stage in pigeon pea and 2nd spray is recommended after 15 days of 1st spray due to its longer duration between flowering and pod setting.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kalaburagi-I |  |
| Name of the NF Farmer | : Sri. Lakshmikant Hibare | |
| Address with Contact No. | : S/o Digambarao Hibare R/o Hagaraga, Tq. & Dist. Kalaburagi-04 Cell: 9886108951 | |
| Landholding | : Total: 07 ac Under NF : 07 ac | |
| Farming situation | : Rainfed: 05 ac Irrigated: 02 ac | |
| Natural Farming adopted in crops | : 850 sandalwood trees and red sanders trees, 850 drumstick tree, 225 java plum trees, 225 Lucknow-49 guava plants, 225 Thai orange trees, 225 grapefruit (red orange) trees and 125 Mahogany timber plants and 125 meli dubia trees, amla, turmeric and moringa along with fruits plantations | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 5 Lakhs | |
| Awards received | : 1. "Best farmer" pakwada award from Bank of Baroda, Kalaburagi Regional Office, Zonal level award during 2020-21 2. Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka during 2019) | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Preparations of bio inputs in their farm only and season and market based cultivation. | |





ICAR-Krishi Vigyan Kendra, Kalaburagi-I

Annual Technical Meeting-2023-24

ICAR- Krishi Vigyan Kendra, Kalaburagi-I scientists have participated their respective department's Annual Technical Meeting held on Second fortnight of April 2024 reviewed the work done in Teaching, Research and Extension during the year 2023-24 and plan of work and new Technical Programme for 2024-25 at different departments of University of Agricultural Sciences, Raichur.

Dr. Raju G. Teggelli, Senior Scientist and Head, ICAR-KVK, Kalaburagi-I presented work done report conducted during the year 2023-24 and new technical programme for the year 2024-25 of KVK, Kalaburagi-I and department of Agricultural Entomology for three days. Dr. Yusuf Ali, Scientist (Agronomy) presented work done report and technical programme from department of Agronomy for four days, Dr. Zaheer Ahamed, Scientist (Pathology) presented work done report from Plant Pathology department for three days and Dr. Shreenivas B V, Scientist (Soil Science) attended Annual

Technical Meeting of the Staff of the Department of Soil Science and Agril. Chemistry held on 22nd and 23rd April, 2024 presented the work done in Teaching, Research and Extension during the year 2023-24 and new Technical Programme for 2024-25 at Department of Soil Science, College of Agriculture, UAS, Raichur.

At the outset, Dr. Hanumanthappa, M. Hon'ble Vice Chancellor, UAS, Raichur inaugurated the meeting and appreciated work done by the scientists also stressed on research and extension activities of Kalyan Karnataka region major and minor crops especially millets, low cost technology, value addition, processing and marketing opportunity to the farmers.

In these meeting University Key officers, respective University HODs, teachers, scientists and PG students participated and gave valuable suggestions for the benefit of the farmers.



Dr. Bujurke Academy P.U. Science Students

Dr. Bujurke academy, Agriculture Practicle Teat coaching classes under Agriculture Quota practicle test, Kalaburagi, P.U. Science students of were visited to KVK, Kalaburagi-I for B.Sc. Agri practicle test for agricultural quota which is scheduled on 25th of May. In their exposure visit, students were visited different demo units of KVK with scientists and gain the basic knowledge about the Agriculture. Dr. Shreenivas B V, (Soil Science) emphasised on importance of soil fertility and soil and water testing and use of soil health card to improve soil fertility and crop productivity by adopting new technologies and also encouraging organic and or natural farming also explained about the procedure followed for analysis of different nutrients of soil and water. Dr. Zaheer Ahmed, Scientist (Plant Pathology) and Dr. Yusufali Nimbargi, Scientist (Agronomy) deals the Patholgy aspects and agronomic practices respectively. Dr. Shivaraj, G. Bujurke, Assistant Professor and Coordinator and 60 students were participated and got knowledge from the visit.





ICAR-Krishi Vigyan Kendra, Kalaburagi-II



KVK KALABURAGI - II TECHNOLOGY


(Quality seed supply – A idiosyncratic approach to reach farmers)

Salient Features of technology:

Since the inception of ICAR-KVK, Kalaburagi-II, it left its footprint in quality seed production and supply chain among the farming community. Pigeonpea is the major crops in the jurisdiction, from 2016 to till now, ICAR-KVK, Kalaburagi-II produced 9687 qtl of improved and latest variety certified seeds and it reached about 8804 farmer of the state and neighboring states. The pigeonpea alone covered 27935 acre area and other crops like Greengram and Chickpea has also contributed to develop affinity among the farming community.

Contributor: **Dr. P. Vasudev Naik**, Sr. Scientist & Head, **Dr. Chethan T**, Scientist (Horticulture)
Mr. Sanjeevkumar Patil, Technical officer (Computer)

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kalaburagi-II |  |
| Name of the NF Farmer | : Sri. Nagraj Sajjan | |
| Address with Contact No. | : R/o Balamadagi, Tq. Chittapura, Dist. Kalaburagi. | |
| Landholding | : Total : 80 ac, Natural farming : 15 ha | |
| Farming situation | : Rainfed and irrigated | |
| Natural Farming adopted in crops | : Redgram, Cotton, Bengalgram, Custard apple and Banana | |
| Innovations adopted | : He started the preparation of waste decomposer for that he is adding different ingredients like piece of iron and copper for micronutrient source, fallen fruits as source of boron, lime stone for the calcium and small pebbles in the land for other nutrients like this he fulfilling the need for crop and soil. | |
| Annual Net Income from NF | : Rs. 8.2 Lakhs | |
| Awards received | : Best Farmer Award of taluka and district (2021) | |
| Interventions of KVK in fostering NF | : ● Preparation of waste decomposer ● Crop diversification and water conservation technologies ● Integrated approaches for management of pest and diseases ● Market linkages | |





ICAR-Krishi Vigyan Kendra, Kalaburagi-II

Awareness programme on Soil and water samples collection

ICAR-KVK, Kalaburgi-II (Raddewadgi) organised awareness programme on scientific method of Soil and Water sample collection in Agriculture and importance of Soil and Water testing in maximizing crop production. Sr. Technical officer (Soil Science) Mrs. Farzana M. Korabu, created awareness

and demonstrations among the farmers of Halgadala, Kachur and Harnoor villages of Jewargi taluka regarding how to collect scientifically Soil and Water samples and importance of testing in Agriculture. More than 30 farmers participated in this program on 25 and 28th April 2024 in each villages.



Contributor:

Dr. P. Vasudev Naik, Sr. Scientist & Head, **Dr. Chethan T**, Scientist (Horticulture)

Smt. Farzana M.K, Sr. Technical officer (Soil Science), **Mr. Sanjeevkumar Patil**, Technical officer (Computer)





ICAR-Krishi Vigyan Kendra, Kannur



KVK KANNUR TECHNOLOGY (Ayar- Secondary and micronutrient mixture)

Salient Features of technology:

Ayaris a secondary and micronutrient mixture consists of Calcium, Magnesium, Sulphur, Zinc and Boron). Ayar is recommended for Banana @ 200gram/plant. Application of Ayar in banana is recommended as 2 equal splits of 100g each at 2 months after planting and 4 months after planting. Ayar can also be used for other crops like coconut, arecanut, black pepper and vegetables to tackle secondary and micronutrient deficiency and to increase yield.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kannur | |
| Name of the NF Farmer | : Sri. Shaji P. | |
| Address with Contact No. | : Keloth House, Kakkoth, Irivery P.O., PIN-670613, Cell: 9847982838 | |
| Landholding | : Total :0.84ac Under NF :0.24ac | |
| Farming situation | : Rainfed: Irrigated:0.84 ac | |
| Natural Farming adopted in crops | : Amaranthus | |
| Innovations adopted | : Variety: KAU Vaiga, Sprayer | |
| Annual Net Income from NF | : Rs. 1.2 Lakhs | |
| Awards received | : Nil | |
| Interventions of KVK in fostering NF | : Training and awareness on natural farming, Support for the preparation of bioinputs, | |





ICAR-Krishi Vigyan Kendra, Kannur

Zonal Research and Extension Advisory Council (ZREAC) Meeting

KVK Kannur participated in 41st Zonal Research and Extension Advisory Council (ZREAC) Meeting conducted on 30th April 2024 at Regional Agricultural Research Station (RARS), Pilicode. Dr. T. Vanaja, Associate Director of Research, RARS Pilicode welcomed the gathering. Event was inaugurated by Sri. Raghavendra, Principal Agricultural Officer, Kasargode district in a function presided over by Dr. Madhu Subrahmaniam, Director of Research, Kerala Agricultural University. The key note address was given by Dr. Jayaraj P., Associate Director of Extension (North Zone) and Programme Coordinator, KVK Kannur. Dr. Yamini Verma C. K., ADR, RARS Ambalavayal, Dr. Sudarshana Rao, Dean

(i/c), College of Agriculture, Padannakkad and Smt. Susha, Assistant Director of Agriculture, Kalliassery delivered felicitation address. A discussion about the field problems and solutions was conducted by the scientists, extension functionaries of agriculture department and farmers. Presentations of the results of research projects and extension activities of RARS Pilicode, KVK Kannur, CoA, Padannakkad and PRS Panniyur was done by the scientists. ZREAC is a platform to ensure the convergence of research system, extension system and client system in agriculture to plan and execute schemes and interventions for increasing productivity, profitability and sustainability in farming.





ICAR-Krishi Vigyan Kendra, Kasaragod



KVK KASARAGOD TECHNOLOGY (Amrutham Nutrimix project by Kudumbasree Mission, Kerala)

Salient Features of technology:

241 units are working today all over Kerala and 1584 women are employed with an income of Rs. 5000-6000 per month. Annually 18000 MT Amrutham nutrimix is being produced and 5.5 lakh children are getting benefitted. In Kasaragod district alone, 15 units are operating with a production of 35 tonnes per month. Malappuram district peaks with 53 units producing 200 tonnes per month. Delegates from Sri Lanka, South Africa and other states of India visited to study the success of these enterprises. One unit Sanjeevani Amrutham Nutrimix at Malappuram District is fully Automatic operating which is first time in Kerala. Amrutham Nutrimix project by Kudumbasree Mission, Kerala bagged the International award 'Glenmark Nutrition Puraskar' organized by the UN World Food programme.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kasaragod | |
| Name of the NF Farmer | : Sri. Subrahmanya Prasad | |
| Address with Contact No. | : S/o Ganapathi Bhat, Nekkarakaleya house, P.O Pallathadka, Kasaragod, Kerala Contact No.: 9446282951 | |
| Landholding | : Total- 08 ac Under Nf- 07 ac | |
| Farming situation | : Rainfed-4.5 ac Irrigated-2.5 ac | |
| Natural Farming adopted in crops | : 2500 Jack fruit tree-indigenous jack variety; 2500 hybrid Blackpepper Variety (05 ac) & Fodder crop Sapoorgrass (02 ac) | |
| Innovations adopted | : 26 indigenous cows- Kasaragod Dwarf (Kasaragod gidda/Kasaragod Kullan) are reared in a cow barn shed, cow dung and cow urine is used as manure for his "Jagadamba farms" and also used in making value added products and commercialized under the name of 'AMBA multipurpose liquid' a cow urine based cleaner which as detergent and dish washer and one more product under the name of ' Jalaamrutha' a cow urine based formulation which act as Anti bacterial anti fungal and insect pest repellent. Also he makes many Ayurvedam medicinal formulations using cowurine and other medicinal herbs and makes a value added product Arkhs, Ghanas, and Thailas. He also sells dry powdered indigenous cow dung 600 bags of 40kg each at the rate of 800/- per bag and earns a profit of 3 lakh (approx.). And a total profit of Rs. 5 Lakh per annum from the value added products and innovations adopted. | |
| Annual Net Income from NF | : 10 Lakh per annum (Expected) | |
| Awards received | : 1) 2012 "National breed saviour" from National Biodiversity Board, govt. of India 2) 2016 "Gou-seva puraskar" from Hosanagar matt | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Preparations of bio inputs in their farm only and shared techniques and formulations of ITK, also explained Agroforestry based farming system. | |





ICAR-Krishi Vigyan Kendra, Kasaragod

Cow urine value addition



Natural farming adopted in fodder crop and jackfruit cultivation.

Rearing 26 indigenous breed of cow Kasaragod dwarf and commercializing indigenous cow dung as manure for sale.



Visit of Deputy Director General (Agricultural Engineering) to Gramalakshmi FPO in Kasaragod district

Dr.S.N. Jha, Deputy Director General (Agricultural Engineering), ICAR, New Delhi visited Gramalakshmi FPO at Kodom Udayapuram in Kasaragod district on 29th April 2024. The Managing Director of the FPO Shri Joseph explained the activities of the FPO to the DDG. The FPO is having an area of 25 cents of land and a building of 2500 square feet. The company is operating an agri input shop which is providing various inputs like seeds, fertilisers, liming material and farm equipments to the farmers at reasonable price and coconut processing unit established using agricultural Infrastructure fund of 80 lakhs provided by the central government. The unit comprised of a dryer, coconut oil extraction unit with an expeller and a filter press. The processed oil is packed in a continuous type pouch packing machine of one and half litres for retail marketing. The

company has also established a black pepper processing line with destoner, sieve cleaner, spiral separator, washer, band sealer and a dryer for cleaning and exporting of black pepper. Along with this unit, the company is also operating a powdering unit for making spice powders and curry masala powders. The Gramalakshmi FPO is having an annual turnover of 1.6 crores during the year 2023-24. The DDG also had a discussion of the members of the FPO, Dr.M.R.Manikandan, Principal Scientist, CPCRI and Dr. Manojkumar T.S, Principal Scientist and Head KVK on the benefits of FPO to the farming community and the issues and concerns of FPOs with regard to technology, marketing and financial requirements. Dr.S.N.Jha appreciated the working of the FPO and also provided guidance for obtaining grants and marketing of value added products.



(Authors:
Dr. Manojkumar T.S., Head
Dr. Benjamin Mathew, SMS,
Dr. Saritha Hegde, SMS,
Dr. Neelofar I.K, CTO,
Sh. K. Manikandan, STD,
ICAR-KVK, CPCRI, Kasaragod)





ICAR-Krishi Vigyan Kendra, Gonikoppal, Kodagu District



KVK GONIKOPPAL, KODAGU DISTRICT TECHNOLOGY (Arka Microbial Consortium – Bio intensive health promoting PGPR in Black pepper)

Salient Features of technology :

A pioneer and patented technology of IHR, Bengaluru assessed for its performance of health promotion and disease suppression of evergreen problem of wilt disease in black pepper by the KVK. Later, demonstrated in good number of farmers fields and upscaled the production and its availability through NABARD to reach large mass of farmers within and outside the district.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Gonikoppal, Kodagu | |
| Name of the NF Farmer | : Sri. Sathish, C.P. | |
| Address with Contact No. | : Cowdluvillage, Somwarpet taluk, Cell: 9886108951 | |
| Landholding | : Total : 07ac Under NF : 07 ac | |
| Farming situation | : Rainfed: 07ac Irrigated:- ac | |
| Natural Farming adopted in crops | : Arabica coffee + black pepper + coorg mandarin mixed farming system. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 7.5 Lakhs | |
| Awards received | : -- | |
| Interventions of KVK in fostering NF | : Involved him as a Resource person in training the fellow farmers at KVK. Also suggested him take Training on Natural farming at UAS, Bengaluru to sharpen his knowledge on natural farming He is getting 10% premium price for his pulped coffee. | |





ICAR-Krishi Vigyan Kendra, Gonikoppal, Kodagu District

Annual Review (2023) & Action Plan meeting (2024-25) of ATARI, Zone-11

The Annual Review (2023) & Action Plan meeting (2024-25) Meeting of KVK's of ATARI, Zone-11, Bengaluru was organized at ICAR-Krishi Vigyan Kendra, Gonikoppal from 17-19th April 2024. Mr. Bose Mandanna, Progressive Coffee Planter graced the occasion as the Chief Guest. He mentioned that due to changing climatic conditions, farmers were experimenting with new crops. Availability of seeds and planting material of new crops needs to be the top priority to meet the farmers demands. He desired that the KVKs would promote cultivation of more varieties of each crop to ensure sustainability under varied biotic and abiotic stress. Farmer-friendly mechanization need to be introduced to overcome labour scarcity. Dr. Dushyanth Kumar, Director of Research, UAHS, Shivamogga and Dr. Madhuprasad, Director of Extension, UAS, Bengaluru were the guests of honour. Both urged the KVKs to show keen interest in choosing latest technologies for assessment, demonstration and further spread of proven technologies in the field of agriculture, horticulture, livestock, and value addition.

Dr. M.J. Chandre Gowda, Principal Scientist, ATARI,

Bengaluru, presided the inaugural programme and emphasized the need to keep farmers and their problems in the core of programme planning process. Integrating the scientific knowledge into the Farming Systems in varied agro climatic situations under each KVK was stressed upon for empowerment of farmers and conservation of natural resources. Mr. Prabhakar, Head(I/C), KVK, Gonikoppal welcomed the gathering. Dr. Loganandan, Principal Scientist and Head, KVK, Hirehalli gave the vote of thanks. During the 3 days session all KVK heads presented their work done for the year 2023-24 and action plan for the year 2024-25. On the last day of the programme Dr. Prakash Patil, Director, IIHR Bengaluru graced the occasion and appreciated ICAR-KVK Kodagu team for hosting a well-planned and organised event. Later, two progressive farmers Mrs. Rashmi Bhanuprakash and Mr. Ravi were felicitated during the programme for their contribution towards the farming society. The participants expressed their heart felt gratitude towards the hospitality and arrangements done by the KVK Kodagu team. The programme concluded with the national anthem.





ICAR-KrishiVigyan Kendra, Kolar



KVK KOLAR TECHNOLOGY

MANGO SPECIAL and CANOPY MANAGEMENT TECHNIQUES-

A product and practice to achieve ultimate fruit yield and quality in Mango

Salient Features of technology :

Mango special is a micro nutrient formulation developed by IIHR to obtain higher yield and quality in Mango. The technology was purchased to produce the same at KVK Kolar and has spread for more than 40,000 ha area in Kolar district which is globally famous for its mangos. With the intervention of KVK, "Mango special" has turned as a most promising technology for mango growers. Mango special recommended spraying is twice before flowering and twice after fruit set.

Mango trees are not traditionally manifested for canopy management through pruning techniques. KVK Kolar with its constant efforts has spread over whole district with these propitious pruning techniques to be practiced in bearing trees and limiting dense canopy by affording sufficient light and ventilation. This has greatly impacted on optimizing the production of quality fruits and yield in the district (increasing yield by > 15 % with higher fruit quality).

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

- Name of the KVK : ICAR-KrishiVigyan Kendra, Kolar
- Name of the NF Farmer : Sri Sampath Kumar T.
- Address with Contact No. : S/o Late S. Thimmarayappa, Chikkakallahalli Village, Masthi Post Malur Tq Kolar
- Landholding : Total: 25 acre Under NF: 20 acre
- Farming situation : Rainfed: 20 acre Irrigated: 5 acre
- Natural Farming adopted in crops : The cropping area consists of 2 acres dedicated to arecanut, 30 varieties of fruits such as banana, gava, Papaya, Sithapahal, Lime, Dragon fruit, minor fruits, etc., and 6 acres with coconut trees intercropped with lime and mango, alongside an additional 6 acres for ragi, millets, paddy, and horse gram were being cultivated, complemented by the production of cold-pressed coconut oil.
- Innovations adopted : 1. Preparation of own bio pesticides formulations for disease control
2. Water conservation in rain fed dry land horticulture
- Annual Net Income from NF : Rs. 10 Lakhs
- Awards received : ATMA Award
- Interventions of KVK in fostering NF : Training on Natural farming based farming system Preparations of bio inputs and Mixed farming cultivation. Constant follow ups and trainings.





ICAR-KrishiVigyan Kendra, Kolar

Phone in programme on Water management and conservation in summer season

ICAR-KVK, Kolar, Scientist (SS&AC) Dr. Anil Kumar S., participated in live phone in programme for Krishi Darshan DD Chandana on 17.04.2024. The programme covered the complete information on water management and

conservation for various crops during summer months.

The Link of the live programme is mentioned below.
<https://www.youtube.com/watch?v=GwmFqwdBfUo>



Training program on pests & disease management in Tomato and Mango under SCSP programme

ICAR-KVK KOLAR organized a training program on pests & disease management in Tomato and Mango under SCSP programme on 23.04.2024 at Dandiganahalli village of kolar taluk. Dr. Manjunatha Reddy T.B., Scientist (Plant Protection) served as a resource person who also demonstrated the installation of

Tutaabsoluta traps, yellow & blue sticky traps in Tomato and Fruit Fly traps in Mango. The programme was presided by Dr. Anil Kumar, Scientist (SS&AC) & Dr. Asha K. M, Scientist (Horticulture). At the end of the training nearly 30 beneficiary farmers were distributed with the traps mentioned above.



Awareness program on natural farming

ICAR-KVK Kolar organized an awareness program on natural farming in Muduvathi Village of Kolartaluk on 23.04.2024. Dr. Anil Kumar S, Scientist (SS&AC) spread awareness about the importance of natural farming. Dr. Manjunath Reddy T.B., Scientist (Plant Protection) elaborated on the preparation of various Kashayas for pest and disease management in natural farming. Dr. Asha KM, Scientist (Horticulture) explained the preparation of liquid manures. Around 30 farmers participated in the event.

Mango Buyers & FPOs meet

ICAR-KVK KOLAR organized Mango Buyers & FPOs meet at KVK Kolar on 30.04.2024 to create market linkage to the farmers. Dr. Anil Kumar (soil scientist) lighted on the high valued exotic varieties of mango for commercial exploitation & gaps existing in export opportunities of mango. Dr. Chikkanna G S (Home scientist) created awareness about safe & low cost ripening practices in mango. Dr. Asha, K.M., (Horticulture scientist) explained about good agriculture practices in Mango. In the latter session Dr. Maheswarappa, H.P., Director of Research, UHSB, Dr.S.L.Jagadesh, Associate Director of Research, RHREC, Bengaluru and Dr. Shivanand V. Hongal, SS&H, KVK Kolar had group discussion among the mango buyers and FPO farmers. Nearly 70 participants including buyers and FPO representatives were mutually benefited from the programme.





ICAR-Krishi Vigyan Kendra, Kollam




KVK KOLLAM TECHNOLOGY

(Sampoorna KAU multimix- to correct crop-specific nutrient deficiencies)

Salient Features of technology:

Kerala Agricultural University has developed Sampoorna KAU multimix, a crop-specific nutrient mixture containing essential nutrients like zinc, boron, copper, iron, manganese, molybdenum, potassium, magnesium, nitrogen, and sulfur. This mix is applied through foliar application to correct nutrient deficiencies in crops such as rice, banana, and vegetables. The application rates are specified as 5 g/L at the nursery stage and then at 30 and 50 days after transplanting (DAT) for rice, 10g/l at 2, 4, 6, and 8 months after planting for banana, and 5g/l at 30,45 and 60 DAS and at 15,30 and 45 DAT for vegetables. Krishi Vigyan Kendra Kollam conducted frontline demonstrations with Sampoorna, resulting in significant yield increases: 35.6% in rice, 27.74% in banana, and 28.14% in vegetables (Yard long bean).

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kollam. Kerala |  |
| Name of the NF Farmer | : Sri. Jacob Thomas | |
| Address with Contact No. | : S/o Thomas, Mamoottil House, Edayam P O, Valakom, Kollam Cell: 8301927276 | |
| Landholding | : Total: 9 acres Under NF: 2 acres | |
| Farming situation | : Rainfed: 8 acres Irrigated: 1 acre | |
| Natural Farming adopted in crops | : 300 no.s of Vanilla plants, 500 no.s of pepper and in 1 acre of fruit plants comprising of Jack, papaya, ramboottan etc. Owns desi cows 3 No.s belonging to Vechoor and Kasargode Dwarf. | |
| Innovations adopted | : • Grafting pepper scions in Root stock of Piper colubrinum and serpentine layering of Black pepper. • Hand pollination in Vanilla | |
| Annual Net Income from NF | : Rs. 1.5 Lakhs | |
| Awards received | : 1. "Best integrated farmer" at panchayat level during 2021-22 & 2022-23. 2. Block level coordinator under BPKP Scheme. | |
| Interventions of KVK in fostering NF | : • Training on Natural farming • Method demonstration for preparation of Natural farming formulations • Distribution of Demonstration inputs • Exposure visits to NF practicing fields | |





ICAR-Krishi Vigyan Kendra, Kollam

Meliponiculture to support SC farmers to sustain their income and nutritional security under the ICAR-SC SP programme

Beekeeping is a very good entrepreneurial programme that can be adopted by the farmers for sustaining the income from their farms. Honey plays a major role in boosting the immunity with its traditional indigenous use with a wide range of purported therapeutic properties, including antidiabetic and antioxidant activity. KVK Kollam has taken up the meliponiculture to support the SC women farmers since it involves less skill and easy to handle even by the children and women at the home. Apart from this, the nutritive value of honey is pretty good compared to Indian bee honey. With the above facts in mind,

we have selected 20 SC farmers as beneficiary under the ICAR-SCSP scheme and they were given hands on training on stingless beekeeping (Meliponiculture) and supplied the beneficiary with stingless bee box (with bees). The programme was inaugurated by Senior Scientist and Head, Dr BiniSam, KVK Kollam and a hands on training session on meliponiculture was given by Dr. Lekha M, Assistant Professor (Agrl. Entomology). By the implementation of this programme, we aimed to thrust the nutritional security as well as boosting the immunity of the SC family.





ICAR-Krishi Vigyan Kendra, Koppal



KVK KOPPAL TECHNOLOGY

(Horizontal spread of high yielding, salinity tolerant (10 ds/m), rice variety GNV 1109)

Salient Features of technology:

The saline tolerant paddy variety GNV 1109 was released by University of Agricultural Sciences, Raichur in the year 2022, ICAR-KVK Koppal has taken total 20 front line demonstration in salinity affected areas of Koppal district under TBP command area during the year 2022-23 and 2023-24. Along with this TOT through FLD, KVK also conducted the capacity building programmes, group discussions etc. There was 24.60% increase in the yield of GNV – 1109 was observed during the demonstration. To reach the larger salinity affected area, KVK and ARS both has taken up the seed production activity and produced 100 quintals of GNV 1109 in 2022-23. During the year 2023 the salinity tolerant variety GNV – 1109 was reached an area of 8000 ha in a span of one year. The expected seed yield of GNV – 1109 from 2023 Kharif seed production activities of KVK and ARS will be 500 quintals, which can cover the area of 2000 acre. The horizontal spread from farmers to farmers would be of 10000 acres.





ICAR-Krishi Vigyan Kendra, Koppal

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

SrinathToona, a farmer from musalapur village KanakagiriTaluk, Koppal district who is company secretary graduate has been practicing natural farming for 7 years on his 3.5 acres land. His diverse crops include mango, acid lime, banana, wheat, millets turmeric, ginger, pepper, coffee, curry leaves and drumstick alongside silver oak on the bunds. He is embraced integrated farming system approach with sheep rearing, backyard poultry, rearing two desi cows and one calf, cultivating vegetables in the nutri garden, maintaining vermi compost unit, compost units etc., for

additional income. Srinathprepares jeevamrutha, ghanajeevamrutha, beejamrutha and appliesjeevamrutha to the crops through drip irrigation. He sells his products which includes value added products like turmeric powder, lemon pickle to the interestedcustomers and also sells products directly to the customers, earning an income of 3 lakhs per annum through natural farming and IFS. He also shares his experience in natural farming to the surrounding farmers and also as a resource person to the training programmes on natural farming organised by the ICAR-KVK, Koppal



Participation of school soil health programme at JNV school Kukanur

The school soil health programme is an important initiative launched by the Government of India. It promotes sustainable farming practices and improves agricultural productivity. This will provide students with the opportunity to conduct experiments, analyze soil samples and explore the fascinating biodiversity within the soil. This program will provide students with the opportunity to conduct experiments, analyze soil samples and explore the fascinating biodiversity within the soil. Department of agriculture ,Koppal and JNV School kukanur organized soil health

programme for school children. The programme was inaugurated by the ADA Shri Prashanth ,Vadrahatti,Gangavathitaluk,Koppal explained about the origin of the soil,types , and important nutrient of the soil. Mrs. Shruti .N ,Technical officer ,Soil science, ICAR KVK Gangavathi narrated about the importance of soil testing and procedure to collect the soil sample in agriculture fields. Sri, Raviteja, Retired assistant professor,Koppal explained about the importance of school soil health programme. More than 100 students were participated in the programme.





ICAR-Krishi Vigyan Kendra, Kottayam



KVK KOTTAYAM TECHNOLOGY

(AYAR – A secondary and micronutrient mixture to increase yield in banana)

Salient Features of technology :

Ayar (which consists of secondary and micronutrients vizcalcium, magnesium,Sulphur, zinc and boron), which helps in yield increment to the extent of 15-20% in banana, if soil application is carried as per recommended dosage 100g/plant at second and fourth month after planting.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kottayam | |
| Name of the NF Farmer | : Sri Sebastian M. K. | |
| Address with Contact No. | : Muthukulathil, Kaduthuruthy, Cell: 9447974297 | |
| Landholding | : Total : 02 ac Under NF : 02 ac | |
| Farming situation | : Rainfed: 02 ac Irrigated: 02 ac | |
| Natural Farming adopted in crops | : Rice, Vegetables, vegetables, pulses and millets in rainfed and irrigated condition. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 1.5 Lakhs | |
| Awards received | : 1. "Best farmer" award at panchayat level from Department of agriculture and farmers welfare, Trivandrum, during 2020. | |
| Interventions of KVK in fostering NF | : ● Promoted cultivation of fallow land with pulses ● Provided Trainings on preparations of bio inputs in their farm. ● Field demonstrations. | |





ICAR-Krishi Vigyan Kendra, Kottayam

Golden Jubilee torch reached KVK Kottayam on 30/4/2024

Suvarna Samridhi 2024, the golden jubilee celebration of KVK Kottayam started with the arrival of golden jubilee torch from KVK Pathanamthitta. Dr. C. P. Robert, Sr. Scientist and Head, KVK Pathanamthitta handed over the golden jubilee torch to KVK Kottayam. Mr. S.P Sujith, Variety Farmer who was honoured with Kerala State Young Farmer Award was the chief guest. Principal Agricultural Officer Kottayam, Smt. Soosamma George presided over the function. Felicitation were done by Sri. Reji Varghese, DDM, NABARD, Sri. Alex E

M, Lead Bank Manager, Dr. Binu John Sam, Sr. Scientist and Head ,KVK Thiruvananthapuram, Dr. C. P. Robert, Sr. Scientist and Head, KVK Pathanamthitta. Selected farmers who were able to enhance productivity and income as part of the doubling farmers income were honoured and certificates were given during the programme.

Sri Sujith stressed on the importance of technologies the precision farming and ICT tools for the productivity enhancement.



Program for the promotion of farm tourism by adopting location specific integrated farming system models in Kottayam district.

KVK Kottayam took lead role in a multi departmental convergence programme to promote farm tourism in the district. Showcasing of opportunities for the farming community in the background of the international tourism destinations of kottayam was the highlight of the programme. Scope for making or improving livelihood of farming community by exploiting the scope of location specific integrated farming system models was conveyed through this programme. More than 100 officials from the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) along with farmer representatives from

all the panchayaths of Kottayam took part in training sessions. They were empowered to prote and practice IFS in a location specific manner.

Sessions on nursery management, soil and water conservation, inland fish farming, rice and coconut based farming systems along with field experiential learning opportunities were provided to the trainees. Activities were planned in convergence with Local self government representatives, farmers, MGNREGS officials, agriculture department and KVK to promote farm tourism and thereby enhance the per family earnings.





ICAR-Krishi Vigyan Kendra, Kozhikode



KVK KOZHIKODE TECHNOLOGY (Bush Pepper- To pep up Kitchens)

Salient Features of technology:

Bush pepper is a miniature pepper plant growing like a bush, suitable to grow in pots. It is valued both as ornamental and for year-round production of pepper berries. The plants are produced by rooting lateral branches of yielding pepper vines using rooting hormones or by grafting on *Piper colubrinum* root stocks. It is a handy method for meeting demand of households without suitable field conditions for growing normal vines of pepper. The plant starts yielding in first year itself and may last for more than 15 years with annual yield of 1-2 kg green berries/ pot.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Kozhikode |  |
| Name of the NF Farmer | : Smt. Rosy Tomy | |
| Address with Contact No. | : Chenamkulath House, Chembanoda P.O, Kozhikode District. Kerala, Pin 673528, Phone: 9526613111 | |
| Landholding | : Total : 2 acres Under NF : 2 acres | |
| Farming situation | : Rainfed: 1.5 acres Irrigated: 0.5 acres | |
| Natural Farming adopted in crops | : Plantation crops: Coconut, Arecanut and cashew Fruit crops: Banana (Mysore, Njalippovan, Nendran), Jack, Mango, Guava, lemon, Chamba, Gooseberry, Rambutan, pineapple etc. Tubers: Sweet potato, Elephant Foot Yam, Colocasia, Dioscorea, Cassava and Arrow root Vegetables: Yard long bean, Dolichos, Bitter gourd, Ivy gourd, Bhindi, Brinjal, Chilly, Passiflora, Tomato, Amaranth, Leaf taro, Cucumber, Pumpkin, Curry leaf etc. Spices: Black pepper, Nutmeg, Ginger, Turmeric | |
| Innovations adopted | : 1. She has adopted fertigation of entire crops using Jeevamrutham 2. She has branded the value added natural farming products with brand name "Rose products" and started trading. | |
| Annual Net Income from NF | : Rs. 4 Lakhs | |
| Awards received | : 1. Best woman Farmer in the Panchayat Award 2023 By Krishibhavan, Chakkittapara, Department of Agriculture Govt. of Kerala. | |
| Interventions of KVK in fostering NF | : Training on Natural farming, KVK selected the plot as demonstration unit of natural farming. | |





ICAR-Krishi Vigyan Kendra, Kozhikode

Field day of Amaranth organized (19.4.24)

KVK organized a field day during the harvesting of the amaranth variety KAU Vaika as part of the FLD programme at Arikkulam panchayat. Dr.P.S.Manoj , SMS (Horticulture) inaugurated the programme and Mr. E Dinesan, president of the AmbilleryKarshikaKoottyma presided over the function. Mr. Arjun, Agricultural Assistant, Krishi Bhavan, Arikkulam, Kumari Anna Abraham, Mr. Surendran M and Mrs. Rari AP spoke on the occasion. Mr.P K Ansari welcomed the gathering and Mr E. Balakrishnan proposed vote of thanks. Over 40 farmers from Arikkulam attended the programme. KAU Vaika, is a red amaranth variety of Kerala Agricultural University, known for its high yield and late flowering. It was showcased along with VlathankaraCheera valued for its intense red colour, better taste and disease resistance.



Field day of Amaranth

The event highlights KAU and KVK's dedication to sustainable vegetable farming, benefitting hundreds of farmers.



Hands on training on planting of ginger on beds

Training on spices organised (30.4.2024)

A practical oriented training programme was organized on scientific cultivation of ginger and turmeric at Krishi Vigyan Kendra, Calicut. The programme was attended by 34 register farmers in a learning by doing method through hands on experience and visit to model demonstration plot maintained by KVK at KVK campus.

The program was lead by Dr K M Prakash, Subject Matter Specialist, Agronomy of the Kendra.

Field day organized for the new green gram variety experimentation in Maruthonkara(18.4.24)

Field day was conducted at NICRA village during the harvest of new high yielding variety of KKM – 3 recently demonstrated by KVK in summer rice fallows. The programme was demonstrated as intervention of NICRA addressing climate change.The programme was inaugurated by Dr. P Ratha Krishnan, Principal Scientist & Head KVK, Calicut. The programme was attended by 18 farmers and 5 external personal from KVK.

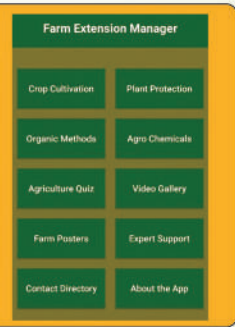


Field day-Harvest of KKM-3 Green gram





ICAR-Krishi Vigyan Kendra, Malappuram




KVK MALAPPURAM TECHNOLOGY

(Farm Extension Manager (FEM@Mobile) – A mobile application in the field of agriculture)

Salient Features of technology:

FEM@Mobile is a mobile application in agriculture containing information on 100 crops which is available to download from google play store that works in offline and online mode in Android iOS. There are ten different categories of information covered under the tool. Information on around 800 recommended varieties, around 300 fertilizer recommendations; symptom and control of over 500 insect pests, 700 plant diseases and 100 deficiency disorders are presented in the app. The app is available in English as well as Malayalam languages and so far 75000+ downloads are made from google play store by android users.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Malappuram |  |
| Name of the NF Farmer | : Sri. Alavikutty Kalodi | |
| Address with Contact No. | : Kalodi house, Kalpakanchery, Kuttipuram, Malappuram, Cell : 8547310478 | |
| Landholding | : Total : 03 acres Under NF : 02 acres | |
| Farming situation | : Irrigated: 03 acres | |
| Natural Farming adopted in crops | : Coconut based integrated farming system in two acres with Areacanut, betelwine, Banana, Nutmeg, Ginger, Pepper and vegetables as inter crops | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 6 Lakhs | |
| Awards received | : 1. Best Organic farmer” award from Agricultural Office Kalpakkanchery Panchayath, Department of Agriculture and Farmers Welfare, during 2023 2. Certified as Custodian farmer 2020-22 by Kerala State Biodiversity Board | |
| Interventions of KVK in fostering NF | : Training on Natural farming, nursery management, apiculture, organic farming, livestock management, food processing and value addition, Marketing techniques, biocontrol agents and botanicals preparation. | |





ICAR-Krishi Vigyan Kendra, Malappuram

RAWE module - Exploring the field realities

Seventeen BSc (Hon.) students consisting of 13 girls and 4 boys from the College of Agriculture Padannakkad, attended the 5 days' of RAWE training at KVK Malappuram from 20th to 25th April 2024. The programme started with a short inaugural speech by the Programme coordinator, Dr. Priya G. Nair, followed by mutual introduction of the students with KVK scientists and briefing the expectations out of the training at KVK. Accordingly a training schedule was prepared by RAWE coordinator for the batch Dr. Ibraheem Kutty giving more emphasis on inculcating maximum field exposure and hands on training sessions. The programme was implemented with active involvement of all the scientists and technical staff of the KVK, covering activities of various disciplines, practical session at various demonstration units and cultivation fields, special sessions in the field, dealing with FLD and OFT activities and appraisal of agricultural activities in the field, organizing and conducting

training sessions to farmers and so on. The programme was concluded by the presentation of activity report including their experience sharing on the various extension modalities under the KVK and discussion on the FLD and OFTs prepared by the students.



RAWE trainees with KVK Scientists

Comprehensive Training on Mushroom Cultivation

A training program on mushroom cultivation was organized for 25 farmers on April 24th at the KVK, with sessions led by Dr. Lilia Baby, Assistant Professor (Home Science). The training covered various topics, including different types of mushrooms, their nutritional and health benefits, scientific cultivation methods for oyster and milky mushrooms, and

explored possibilities for value addition in mushroom products. Additionally, as part of the KVK attachment module of the RAWE program, final year students from the College of Agriculture, Padannakkad, conducted method demonstrations of mushroom cultivation for the farmers' benefit.





ICAR-Krishi Vigyan Kendra, Mandya



KVK MANDYA TECHNOLOGY

(Sugarcane trash management in Mandya district- a way to manage soil health)

Salient Features of technology :

The Frontline demonstrations (143) on integrated trash management were taken up in Mandya district with the technology wherein application of 500 kg of FYM mixed with 25kg microbial culture (Trichoderma) and new microbial consortia consisting (Phanerochaete + Pleurotus + Trichoderma + Pseudomonas + Bacillus + Cellulomonas) which helped in better degradation of the trash and narrowing down the C:N ratio. As a result the soil organic carbon content and yield increased from 0.40 to 0.58 percent and 15-20 percent respectively and Net returns upto 20 percent. This technology has spread to an extent of 28634 ha area.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Mandya | |
| Name of the NF Farmer | : Mr. Niranjana.H.S. | |
| Address with Contact No. | : S/o Shivaramu.H.T Honnanayakahalli village of Mandya district District - 571450 Mobile No.: 8073484942 | |
| Landholding | : Total : 8 ac Under NF : 02 ac | |
| Farming situation | : Rainfed: 0 ac Irrigated: 08 ac | |
| Natural Farming adopted in crops | : Coconut - 300, Arecanut - 600, Avocado - 20, Drumstick - 120, Banana Yalakki - 500, Jackfruit-40, Gauva-60, Sapota-30, Mandrins-50, Amla-10, Rampala-40 | |
| Innovations adopted | : Providing Bioinputs like Jeevamrutha, Neemasthra, Dashaparni kashaya through microsprinkler | |
| Annual Net Income from NF | : Rs. 2.10 Lakhs | |
| Awards received | : 1. District level Best Farmer - Krishimela 2020, UAS Bangalore 2. District level Best Farmer (ATMA)-2021 3. Udayonmukha Krishipandith 2020, Karnataka State Dept. of Agriculture | |
| Interventions of KVK in fostering NF | : 1. Training on agroforestry based farming system, natural farming, preparations of bio inputs, bee keeping and livestock management. 2. Nominated him as Champion Farmer under Natural Farming Krishi Saki | |





ICAR-Krishi Vigyan Kendra, Mandya

Timely providing farm suggestions – A solution for farm problem

Change in climate has lead to inviting lot of farm problems in farmers field. Severe incidence of sucking pest in chrysanthemum is one of them during this year since dry bright sunny days attract more of thrips attack in Chrysanthemum. Mr. Sunil a farmer cultivating 0.5 acre chrysanthemum at Sampahalli village in Mandya taluk was facing the problem of sucking pests infestation, leading to poor quality of flower which directly affects the price of the flower in the market. In this view, as per the request by the farmer, Scientists from ICAR-Krishi Vigyan Kendra,

V.C.Farm, Mandya Dr.Divya, B, Scientist (Horticulture) and Dr. Suresh.D.K, Scientist (Agriculture Extension) visited the field and on diagnosis of the problem, as the incidence of thrips was severe he was advised to install yellow sticky traps, application of trichoderma and pseudomonas, neem soap 3 g/l of water spray followed by thiomethaxim 1g/l of water as spray for controlling sucking pest. Further, for better quality of the crop foliar application of micronutrients 3 g/l of water was suggested which in further days the farmer opinioned the improvement in the crop quality.





ICAR - JSS Krishi Vigyan Kendra, Suttur, Mysore




KVK SUTTUR, MYSORE TECHNOLOGY (Banana Special – Promoting secondary and micronutrients)

Salient Features of technology :

ICAR JSS KVK produced 57500 Kgs of Banana special from the year 2010, horizontal spread of technology is around 2289 ha Banana area and over 4500 farmers benefitted in almost all parts of Karnataka. Foliar spray of Banana special from 4/5th month of planting at monthly interval on the whole plant till the bunch formation and there after two sprays on the bunches at the rate of 5 g/l. As a result of the concerted efforts of the KVK, there has been a constant increasing the area and productivity of the Banana in the district. An average of increment of area is about 30% along with the productivity is about 15-20%.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Suttur Mysuru, Karnataka |  |
| Name of the NF Farmer | : Sri. Siddappa | |
| Address with Contact No. | : S/o Late Moorthappa, Hosakote village, Chikkayanachatra hobli, Nanjanagudu Taluk, Mysuru district, Mobile: 9980892536 | |
| Landholding | : Total : 06 acres Under NF : 06 acres | |
| Farming situation | : Rainfed: 04 ac Irrigated: 02 ac | |
| Natural Farming adopted in crops | : Coconut nursery, multi-storied cropping crops such as Arecanut, Coffee, Banana as intercrops in coconut orchard, live mulching by using farm waste and coconut dried palm leaves filled in trenches between coconut rows and to arrest runoff water across slope, biofertilizer liquids like jeevamrutha and panchagavya regularly prepared and applied to live mulch in trenches around coconut, arecanut, coffee and banana crops. | |
| Innovations adopted | : • Opened trenches near coconut trees and filled coconut leaves in trenches to harvest rain water and to arrest runoff water in trenches • Multi-storied cropping coconut+ Arecanut+banana +coffee | |
| Annual Net Income from NF | : Rs. 6.5 Lakhs | |
| Awards received | : 1. "Progressive Farmer Ward" at taluk level by ATMA, Department of Agriculture Nanjangud | |
| Interventions of KVK in fostering NF | : Training on Natural farming, soil and water conservations and rainwater harvesting in farm pond, live mulching using local materials Preparations of bio inputs in their farm only and season and market based cultivation. | |





ICAR - JSS Krishi Vigyan Kendra, Suttur, Mysore

Participation as a resource person in Soil Health Program (SHP)

Soil health management training programme organized by Department of Agriculture (DoA) Mysuru and ATMA Mysuru in collaboration with JSS KVK Suttur on 18th April 2024 at Jawahar Navodaya Vidyalaya (JNV) school Maragodanahalli village, Mysore district. KVK scientist explained about importance of soil testing, soil sampling methods and soil fertility management. Nearly 50 students participated in training and method demonstration. KVK as a nodal officer for the soil health program (SHP) in the district.



Method demo on soil sampling

Participation as a resource person in Kids Mela (Eleyara mela)

ICAR JSS KVK Suttur Horticulture scientist Dr Vinay G M participated as resource person at Yeleyara Mela 2024 at JSS Saraswathipuram School Mysore. Delivered lecture on importance of agriculture and practical class on sowing of seeds, grafting techniques, more than 100 students participated and got benefited from the programme.



Summer camp on Krishi Paata Desi Aata

ICAR JSS Krishi Vigyan Kendra Suttur organised 5days summer camp on "Krishi Paata Desi Aata" in order educate the children's about agriculture and to create awareness on Desi games from 21.04.2024 to 25.04.2024.

The kids aged from 7 to 12 were got admission to the camp and main theme of the camp are Agriculture activities and Desi games. Related to Agriculture the activities like Importance of cows in agriculture, Vermicompost preparation, Soil health/soil testing, Nursery works (sowing, budding and grafting), Seed ball preparation etc.

Desi Aata such as Aliguli mane aata, Bugari, Lagori, Drawing, Craft, Pottery and Goli etc., were planned and implemented. 24 children were participated in the summer camp and enjoyed games and agriculture related activities.





ICAR-Krishi Vigyan Kendra, Palakkad




KVK PALAKKAD TECHNOLOGY

(NEEM GARLIC CHILLY SOAP– Anecofriendly organic solution for the management of sucking pest)

Salient Features of technology:

Neem garlic chilli soap was found to perform better for the management of sucking pests. The pest incidence reduced by 45 % in plots treated with neem garlic chilli soap. The average pest incidence in control plots were 25% whereas that in neem garlic chilli soap sprayed plots were 14%. While neem garlic soap won't kill pests on contact, consistent use can help control infestations and deter new pests from moving in.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Palakkad |  |
| Name of the NF Farmer | : Smt. T Dhanalakshmi | |
| Address with Contact No. | : W/O Thirumali Swami, P. O Ozhalapathy, Kozhipparavazhi Chittoor, Palakkad, PIN 678557. | |
| Landholding | : Total: 10 ac Under NF: 10 ac | |
| Farming situation | : Rainfed: 02 ac Irrigated: 08 ac | |
| Natural Farming adopted in crops | : She grows two acres of paddy nearly 700 coconut, 1000 banana, 300 papaya, vegetables, spices and tubers. Farm is an integrated unit with crops cattle and poultry unit. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 4 Lakhs | |
| Awards received | : 1. "Akshayasree Award" in the year 2020 for organic farming. | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Awareness on preparation of bioinputs, technical guidance on demonstration plots, video presentation and leaflet distribution of natural farming theme. | |





ICAR-Krishi Vigyan Kendra, Palakkad

Training on Natural farming At AgaliKrishibhavan

A training on natural farming was conducted at AgaliKrishibhavan on 22-04-2024. The programme was organized along with the KVK module of the RAWE (Rural Agricultural Work Experience) program of B.Sc. (Hons) Agriculture students from College of Agriculture, Padannakkad. An introductory class about the principles of natural farming was conducted by Mr.ArunThazhath (SMS – Agronomy, KVK Palakkad) and after that, students from College of Agriculture, Padannakkad described and demonstrated preparation of different agricultural inputs which are used in natural farminglike beejamrutha, jeevamrutha, neemasthra etc. to the farmers.



Author: **ArunThazhath**, SMS Agronomy, KVK Palakkad

Commercial fruit and vegetable processing under SCSP programme

A group of Scheduled Caste (SC) farmers from Kozhikode district participated in a commercial fruit and vegetable processing training program organized by KVK Palakkad on 18.4.2024. During their exposure visit, the farmers were introduced to various machineries used in processing fruits and vegetables, enhancing their understanding of modern processing techniques. A special hands-on training session was conducted, allowing the farmers to actively engage in the processing methods. This initiative not only provided valuable knowledge but also equipped the farmers with practical skills that could significantly enhance their productivity and economic prospects in the agricultural sector. The training covered aspects like hygiene, preservation techniques, and creation of marketable value added products like jams, beverages, sauce etc. This exposure

to commercial processing methods empowered the farmers to potentially increase their income and gain a competitive edge in the agricultural market.



Author: **Dr. Lakshmy P.S** Assistant Professor, KVK Palakkad





ICAR-Krishi Vigyan Kendra, Pathanamthitta




KVK PATHANAMTHITTA TECHNOLOGY (Establishment of State Resource centre for Jackfruit)

Salient Features of technology:

Establishment of State Resource Centre for Jackfruit (SRC-J) was the zenith of the actions the KVK executed in yesteryears for bringing Jackfruit, the most wasted fruit of Kerala, in the limelight. The center was established with 100 lakhs funding form Govt. of Kerala and has installed modern equipment for jackfruit processing. The SRC serve the farmers and entrepreneurs by providing basic and advanced trainings on Jack fruit processing. SRC has also standardised the production protocols for 16 commercial products from jackfruit and also aids in establishment of enterprises by providing Detailed Project Reports.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, CARD Pathanamthitta |  |
| Name of the NF Farmer | : Sri. CK Mani | |
| Address with Contact No. | : S/o R Chami, San Nivas (H) Kadabanad P O & Dist. Pathanamthitta, Kerala, Cell: 9447594550 | |
| Landholding | : Total: 1.2 acre | |
| Farming situation | : Rainfed: 80 cents Irrigated: 40 cents | |
| Natural Farming adopted in crops | : Vegetables -Terrace Garden in Tyre grow bag, Coconut 6 nos, Amorphophallus 120 nos, Taro 200 nos Yam 60nos, Ginger 10 cent, Turmeric 25 cents, Banana 80 nos, Fish pond | |
| Innovations adopted | : Tyre grow bag cultivation, Aquaponics | |
| Annual Net Income from NF | : Rs. 1.5 Lakhs | |
| Awards received | : 1. "Akshayasree Award" award from Sarojini Damodaran Foundation, Bengaluru. 2. Best Organic Farmer in the district' Award from Dept. of Agri. Development and Farmers welfare, Kerala | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Coconut based farming system, inter cropping tuber crops, banana and spices | |





ICAR-Krishi Vigyan Kendra, Pathanamthitta

Journey of Golden Jubilee torch through ICAR-KVK, Pathanamthitta

The Golden Jubilee Torch, symbolizing the remarkable journey and achievements of Krishi Vigyan Kendras (KVKs), reached ICAR-KVK, CARD, Pathanamthitta amidst a special commemorative function "Suvarna Samridhi" held on April 23rd, 2024. This event marked the reception of the Golden Jubilee Torch at KVK, Pathanamthitta as part of the significant journey that began in Puducherry during curtain-raiser event on February 21st 2024.

Traversing through various KVKs ICAR-KVK, Bapuji, Idukki, ICAR-KVK, Mitraniketan, Thiruvananthapuram, ICAR-KVK, Kollam, the Torch arrived at ICAR-KVK, CARD, Pathanamthitta. In a momentous occasion, the Torch was handed over to Dr. C.P. Robert, Senior Scientist and Head of ICAR-KVK, Pathanamthitta in the presence of esteemed dignitaries including Dr. Venkatasubramanian, Director of ICAR-ATARI, Bengaluru, Rev. Moncy Varghese

Director, CARD, Ms. K.K. Valsala Koipuram Block Panchayath President, Mr. Jiji Mathew District Panchayath Member, Ms. Mary K. Alex, Principal Agricultural Officer i/c, Ms. Sushmitha Sudhi, Project Director, ATMA, Dr. Mary Rajeeana, Programme Coordinator, KVK Thrissur, Dr. Bini Sam, Programme Coordinator, KVK Kollam, Dr. G. Jayalakshmi, Programme Coordinator, KVK Kottayam, Ms. Ambily V.L, ADA Pullad and Ms. Jiji P. Abraham, Ezhamattoor Grama Panchayath President. This symbolic gesture not only celebrated the fifty years of KVK establishment but also highlighted the collaborative efforts and achievements in agricultural development since 1974.

During the inaugural address, Dr. Dr. V. Venkatasubramanian, Director ICAR-ATARI, Bengaluru stated that latest technologies are being implemented by KVKs to improve the quality of life of farmers by maximizing

the production of agricultural products suited to India's climate and topography with the support of smart concepts and improving their economic value through value addition. Commemorating Pathamudayam (The day when Sun is most powerful and it is also considered to be one of the most auspicious days of the year and is sought out to start new ventures) with a coconut sapling planting ceremony at the KVK farm added a meaningful touch to the occasion. Releasing the video of Ms. Ajitha K.V., a promising lotus entrepreneur from the district during the celebration adds another dimension to the event. It highlights the achievements and contributions of upcoming entrepreneurs in the agricultural sector, inspiring others to follow.

An exhibition was also organized to display the latest technologies promoted by KVK in the field of agriculture and allied sectors. On this occasion, Ms. K.K. Valsala, President, Koipuram Block Panchayath, honoured five farmers who have achieved significant success in the field of agriculture in the district. In addition, Smt. Jiji P. Abraham, President, Ezhamattoor Grama Panchayath, presented the Fellow Farmer award to farmers who doubled their income because of KVK's various interventions in the field of agriculture and allied sectors in the district.



Authors: **Dr. C.P Robert**, Senior Scientist and Head and **Dr. Sindhu Sadanandan**, SMS (Agril. Extension)





ICAR-Krishi Vigyan Kendra, Raichur




KVK RAICHUR TECHNOLOGY

(Direct Seeded Rice – A climate smart technology to reduce water usage and lower greenhouse gas emissions in Paddy)

Salient Features of technology:

Direct seeding is a crop establishment system wherein rice seeds are sown directly into the field, as opposed to the traditional method of growing seedlings in a nursery, then transplanting into flooded fields. Direct seeded rice is seen to be one of the most efficient, sustainable, and economically-viable rice production systems used today. Savings on irrigation water by 12-35% under efficient water management practices and lower Green House Gas emissions are the important features of this technology.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Raichur |  |
| Name of the NF Farmer | : Sri. Sureshgowda | |
| Address with Contact No. | : S/o Raghava Reddy Vill: H Thimmapur, Tq. & Dist. Raichur, Cell: 9845195950 | |
| Landholding | : Total : 40 Ac Under NF : 06 Ac | |
| Farming situation | : Rainfed: 10 Ac Irrigated: 24 Ac | |
| Natural Farming adopted in crops | : 10 Acres of Guava, 300 Moringa trees, 200 Jamun trees, 50 Banana trees, 200 coconut trees, 1 acre Chilli along with field crops | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 10 Lakhs | |
| Awards received | : 1. "Best farmer" UAS, Raichur 2. Super Star Farmer' Award (Instituted by the noted Kannada Daily VijayaVani) 3. "District Millionaire farmer"-2023, IARI, PUSA, New Delhi | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agro-forestry based farming system, Integrated management systems, Preparations of bio-inputs in their farm only, season and market based cultivation. | |





ICAR-Krishi Vigyan Kendra, Raichur

Integrated crop management in Mango; A field visit to Mango Orchard at Burdipad village

The need of present era is to increase the productivity of each and every crop. This could be achieved by adopting improved production practices, high yield varieties and new technologies of the crop. The main objective of this frontline demonstration is to demonstrate new crop production and protection technologies and its management practices at the farmer's field under, and also convincing farmers about the mango production technologies for further widescale diffusion.

Keeping in view of an effective extension approach of frontline demonstration for dissemination of mango production technology, its impact of FLDs conducted to be assessed. Integrated crop management in Mango for effective increase in the yield and reduction in cost of cultivation and

increased income was taken at Burdipad village of Raichur taluk. In this regard, a follow up field visit was made by ICAR-Krishi Vigyan Kendra, Raichur Scientists Dr Hemalatha K.J., Scientist (Horticulture) and Dr. Shreevani G.N., Scientist (Entomology) to the village in order to check the status of the crop. The farmers were made aware about the possible effects of Sun scorching in mango fruits, fruit fly infestation and water and nutrient management at fruiting stages.

They were also made aware of the market values of the fruits, probable yield which they could obtain and the necessary precautions to be taken by the farmers for proper harvesting and packing of the fruits before sending to the market. Around 10 beneficiaries were present during the visit to the Mango Orchard.





ICAR-Krishi Vigyan Kendra, RAMANAGARA




KVK RAMANAGARA TECHNOLOGY

(KVK Ramanagara popularizing disease resistant varieties: BRG-5 and BRG-3)

Salient Features of technology :

Red gram (Cajanuscajan) is an important pulse crop in Ramanagara. The crop productivity is severely affected by biotic stresses such as Fusarium wilt (FW) caused by Fusarium udum and could result in complete yield loss. Hence, the farmers in the region rely exclusively on the application of chemical fungicides to combat Fusarium wilt and Sterility Mosaic Disease (SMD) which has resulted in a tremendous misuse of fungicides and acaricides in an attempt to recover from the infection and also yield of pigeonpea is decreasing due to flower drop and pod setting in climatic vulnerability situation. Hence, many farmers refrained from growing Redgram because of this constraints.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Ramanagara |  |
| Name of the NF Farmer | : Sri. Sampath | |
| Address with Contact No. | : Kalya, Magadi, Ramanagara Cell: 9886108951 | |
| Landholding | : Total : 06 ac Under NF : 06 ac | |
| Farming situation | : Rain fed: 00 ac Irrigated: 06 ac | |
| Natural Farming adopted in crops | : 600 arecanut plants and boundaries were planted with agroforestry trees like silver wood and teak. The arecanut was intercropped with agrawood, coffee and turmeric black pepper, cardamom and coconut was intercropped with banana and turmeric. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 7-8 Lakhs | |
| Awards received | : -- | |
| Interventions of KVK in fostering NF | : The dung was utilized for biogas preparation and residue and slurry is utilized for vermicompost preparation. He has adopted sprinkler and drip irrigation system with bore well rain water harvesting structure for roof rainwater and runoff harvesting. He will market the farm produce to the known customers. | |





ICAR-Krishi Vigyan Kendra, RAMANAGARA

“Impact of Climate change on agriculture and ways to its mitigation”

ICAR-KVK Ramanagara in collaboration with Bande Muthurrayaswamy village watershed committee-Kadushivanahalli which was promoted by SEVA trust and financial support given by NABARD has organised one day farmers scientist interaction on “Impact of Climate change on agriculture and ways to its mitigation” to the watershed beneficiary farmers. Dr. Dinesha, M.S., Scientist (Agronomy), KVK Ramanagara has briefed about rainfall pattern of the district and changed rainfall intensity and number of rainy days over the years and its impact on soil erosion and facility loss from the agriculture field. He also told that due to climate change the mean maximum temperature of the region has changed over the years and this has caused more evaporation loss from crop fields as well as from water bodies, reduced soil organic carbon content in drylands has severe impact on the water holding capacity of the soil which in turn caused the

frequent moisture stress condition for crop plants even with 7 to 8 days gap in the rainfall distribution. Further, he advised the farmers to improve organic carbon content in the soil by adopting legume as a preceding crop, residue utilization and use of green manure crops in pre-kharif and incorporating during July and August followed by medium duration Ragi crop will helps to improve the fertility as well as soil organic carbon content, he told that university in recent years has released several short duration varieties of Finger millet (KMR-630, KMR-316, ML-322) Redgram (BRG-4), Cowpea (KBC-9, KBC-12) and Field bean (HA-4 and HA-5) millet crops varieties which are very much prevalent to get sustainable production under changed climatic situation. Overall farmers interacted with the scientist regarding soil and moisture conservation practices and water harvesting technologies in drylands.



Dr. Dinesha, M.S., Lata R. Kulkarni, Dr. Rajendra Prasad, B.S. and Sowjanya, S.





ICAR-Krishi Vigyan Kendra, Shivamogga




KVK SHIVAMOGGA TECHNOLOGY

(Efficient recycling of areca nut husk waste for value added compost by using decomposing culture)

Salient Features of technology:

At present majority of arecanut husk waste is disposed of by burning which resulted into a loss of potential source of organic matter and valuable plant nutrients and create pollution. To address this ICAR KVK Shivamogga conducting awareness programmes on decomposition of areca husk through front line demonstration in 60 farmer field, 2 on farm testing, 15 Training, 2 workshops, 4 radio programme on use of waste decomposing cultures (composting microbial consortium culture) for decomposing the areca husk waste.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Shivamogga |  |
| Name of the NF Farmer | : Shri. Erappa Naik | |
| Address with Contact No. | : S/o Muddappa Naik, Harabylu Village, Harishi Post, Soraba Taluk, Shivamogga, Mobile: 8660953323 | |
| Landholding | : Total : 12 acres, Practicing Natural farming in 7 Acres | |
| Farming situation | : Rain fed: 05 ac Irrigated: 02 ac | |
| Natural Farming adopted in crops | : 1200 Rubber, 60 Coconut, 300 Coffee, 1000 Areca, 3000 Palm tree and others like Jack, Pine Apple, Nandi, Ginger. | |
| Innovations adopted | : Farmer prepares and teach to neighboring farmers about the preparation of Jeevamrita, Beejamrita. Practicing own secondary Agriculture practices such as Coconut oil extraction unit, Flour milling unit for spices and cereals, rubber processing unit, solar drier for self sustainability. | |
| Annual Net Income from NF | : Rs.7-8 lakhs/ annum and additional income from secondary processing activities Rs. 3 lakhs/year. | |
| Awards received | : <ul style="list-style-type: none"> • Participated in Karnataka Agriculture Tour for best farmer in 2000 • Participated in Government of India's for Agriculture Tour for best farmer in 2006 and studied about Jatropa, Pongamia crops. • Ist person to introduce Palm crop in the taluk during 2007 • Developed mobile bio gas production unit from human waste for rural population • Received taluk level best farmer award from ATMA, Dept. of Agriculture, Karnataka during 2020-21. | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Preparations of bio inputs in their farm only and season and market based cultivation. | |





ICAR-Krishi Vigyan Kendra, Shivamogga



“Natural Farming” training programme for KrishiSakhi's was organized by Dr. Sudharani, N., Scientist (Home Science) from ICAR-KVK, Shivamogga between 25.03.24 to 29.03.24 which was sponsored by MANAGE, Hyderabad.

The programme was inaugurated by Dr. K.T. Gurusurthy, Director of Extension, Dr. G.K. Girijesh, Senior Scientist and Head, KVK Shivamogga, Dr. Ganesh Naik, Dean (College of Agriculture, Navile, Shivamogga), Dr. B. C. Hanumanthaswamy (Associate Director of Extension) KSNUAHS, Shivamogga and other scientists. KrishiSakhi's were taught about hands on training on Natural Farming principles & benefits, demonstration and practical exercises on understanding the difference between healthy & unhealthy soil; understanding the structure of soil and its sampling methods through demonstrations, Identification and management of plant pest and diseases in Natural farming and there management practices naturally by using ICT's, hands on training on natural farming inputs preparation like Jeevamrita, Ghanajeevamrita, Beejamrita,

Neemastra, Agniastra & Dashparni ark, demonstrations on seed conservation for natural farming by establishing farmer seed banks; methods of seed treatment in natural farming, visualization of multi-cropping models in fields, health and nutrition-importance of dietary diversity, healthy diet plans, qualities of para extension professionals & linkages with organizations working for agriculture development branding, certification and marketing of natural produce. Shri. Erappa Naik, Horabylu village, Sorabataluk, Shivamogga, a well-known progressive farmer who is practicing Natural farming has highlighted about the importance of animal components in natural farming as well as processing and value addition activities which must practice all farmers at home scale for the grown crops for sustainable lifestyle.





ICAR-Krishi Vigyan Kendra, Thrissur



KVK THRISSUR TECHNOLOGY

(KVK Thrissur Enhancing Food and Nutritional Security in Kerala)

Salient Features of technology:

KVK Thrissur farm has taken proactive measures by producing various inputs in the revolving fund scheme. An average of 500 kilograms of high-quality vegetable seeds of cowpea, chilly, cucumber, brinjal, snake gourd, ashgourd, bittergourd and bhindi were produced each year. KVK Thrissur also produces an average of 34 kg of mushroom spawn of oyster and milky mushroom each year, 650 kg of KAU Sampoorna for rice, 250 kg of KAU Sampoorna for banana, and 500 kg of KAU Sampoorna for vegetables. KVK Thrissur supported farmers by selling an average of 7500 vaccinated BV 380 chicks, known for their high egg production.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

Name of the KVK : ICAR-Krishi Vigyan Kendra, Thrissur
 Name of the NF Farmer : Sri. Anil Kumar CN
 Address with Contact No. : Chakkungathodiyil House Puthukaad, Thrissur, Cell: 9946444887
 Landholding : Total: 10 ha Under NF : 2 ha
 Farming situation : Rainfed: 5ha Irrigated: 7 ha



Natural Farming adopted in crops : Used to cultivate 28 acres of rice strictly under NF with Beejamrutham, Jeevamrutham, Ghanajeevamrutham, egg amino acid. An Ardent Naturopathy follower and practitioner, he learned the basics of NF from the master Subash Palekarji himself around ten years back. He has been conserving indigenous mango varieties like Kolambu and Chandrakaran of Thrissur since a decade in three acres of land. A nursery (Technique : Stone grafting) specializing in the multiplication of these indigenous varieties of Mango fetches him good remuneration and recognition. He maintains almost 60 mother trees of Chandrakaran and Kolambu and reported that there is a huge demand of their grafted seedlings. He practices a very unique Natural farming system approach inculcating 22 desi cow from various indigenous breeds like Vechur, Kasaragod dwarf, Periyar etc. Rambutan, Mangosteen, Sugarcane, various types of fodder crops, moringa, millets, Jack fruit, pineapple are some of the members of his farm which is completely under NF. He maintains a forest like sanctity in his farm area under fruit crops bringing nature to have its flow effortlessly mulching the soil and keeping the crops healthy in all respects.

Innovations adopted : Innovations in the conservation of native germplasm
 Annual Net Income from NF : Rs. 8 Lakhs
 Awards received : He has abstained from any public recognition which is against his principles.
 Interventions of KVK in fostering NF : Provides platform for discussion on Natural farming, demonstrations, agroforestry based farming system, Preparations of bio inputs and provides support on millet based diet and its value addition prospects





ICAR-Krishi Vigyan Kendra, Thrissur

A Visit to Remember: Insightful engagement of Dr. V Venkatasubramanian, Director, ATARI Zone XI with various stakeholders of KVK Thrissur

Dr. V Venkatasubramanian, the esteemed Director of Agricultural Technology Application Research Institute (ATARI) Zone XI, graced Krishi Vigyan Kendra (KVK) Thrissur with his presence on 20.4.2024. During his visit, the Director engaged in fruitful interactions with various stakeholders of KVK Thrissur. This included beneficiaries of the Tribal Sub Plan (TSP), trainees of the Diploma in Agricultural Extension Services for Input Dealers (DAESI), and the RAWE 2020 batch from the College of Agriculture, Padannakkad, who are currently undergoing KVK Module training.

The visit began with the meeting between Dr. Venkatasubramanian and the Tribal Sub Plan (TSP) beneficiaries of KVK Thrissur, who are leading the way in implementing innovative agricultural practices in tribal areas. The beneficiaries shared their experiences and challenges with the esteemed director, who in turn provided valuable insights and guidance. His words of encouragement served as a source of motivation for the TSP beneficiaries, inspiring them to persist in their efforts towards sustainable agriculture.

Following this, Dr. Venkatasubramanian engaged with the DAESI trainees, who are undergoing specialized training. He emphasized the crucial role of extension workers in disseminating improved agricultural practices and technologies to farmers. The trainees benefited greatly from the speech of Dr. Venkatasubramanian's, gaining valuable

knowledge and skills to excel in their future roles.

The next highlight of Dr. Venkatasubramanian's visit was his interaction with the RAWE 2020 batch of the College of Agriculture, Padnakkad, undergoing KVK Module training at KVK Thrissur. These aspiring students were captivated by Dr. Venkatasubramanian's profound insights and experiences. The interaction with the students was not only educational but also inspirational, motivating them to explore new avenues in agriculture and contribute meaningfully to the sector. We look forward to implementing the valuable insights gained from his visit of the esteemed Director to further enhance agricultural development.

InterKVK exposure visit programme by SCSP trainees of KVK Thrissur to KVK Pathanamthitta

The InterKVK exposure visit program by SCSP trainees from KVK Thrissur to KVK Pathanamthitta proved to be an invaluable opportunity for knowledge exchange and learning. This visit facilitated the sharing of best practices, innovative technologies, and successful models that can be replicated or adapted to local conditions. It also fostered networking among agricultural professionals, promoting collaboration and synergy in extension activities. Additionally, the visit enhanced the understanding of regional agricultural challenges and solutions, contributing significantly to the overall capacity building of the participants.





ICAR-Krishi Vigyan Kendra, Mitraniketan, Thiruvanthapuram



KVK MITRANIKETAN, THIRUVANTHAPURAM TECHNOLOGY (Spawn Production: A subsidiary income generating enterprise)

Salient Features of technology:

Mushroom cultivation is an eco-friendly activity as it utilizes the waste from agriculture which in turn produces fruiting bodies with excellent nutritional and medicinal attributes. Spawn, seed material used for mushroom cultivation is the basic material which decides the success of mushroom production. A packet of spawn weighing 300gm inoculated in plant substrates will yield 2 kg of mushroom fetches an income of Rs. 400/kg. Women entrepreneurs, rural youths and small farmers can adopt this technology, is a viable option to achieve the vision of doubling the farmers income.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Miraniketan, Thiruvanthapuram |  |
| Name of the NF Farmer | : Sri. Jyothis Kumar Thankappan | |
| Address with Contact No. | : 'Varanapallil', T.C.26/1877, Thekkumoodu, Vanchiyoor P O, Thiruvanthapuram - 695035, Mobile 9446507918 | |
| Landholding | : Total 3.5 acres Under NF: 3.5 acres | |
| Farming situation | : Irrigated | |
| Natural Farming adopted in crops | : 1200 plantains, 150 Coconut trees, 35 Mango trees, 32 Jack fruit trees, 20 Guava plants, 80 Custard apple plants, 180 Pine apple plants, 50 Pappaya, 100 Curry leaves plants. 30 Variety fruit trees including Rambutan, mangosteen, gooseberry, star fruit, sapota, passion fruit etc. 10 Anjali trees, 10 Teak trees, 200 Dragon fruit plants, 60 Pepper vines, Turmeric, Kasturi turmeric, ginger, yams, other tubers. | |
| Innovations adopted | : Preparation of natural fertilizers and pesticides like Fish Amino Acid, Egg Amino Acid, Jeevamrithum, fermented rice soup solutions etc. Protected endangered varieties, Apiculture etc. | |
| Annual Net Income from NF | : Rs. 3.5 Lakhs | |
| Awards received | : "Best natural farmer" award from Krishi Bhavan, Neyyattinkara Best farmer Award. | |
| Interventions of KVK in fostering NF | : Training, Field visits, Advisories and market based cultivation. | |





ICAR-Krishi Vigyan Kendra, Mitraniketan, Thiruvanthapuram

Custom hiring centre – Need of the hour for small and marginal farmers of Thiruvananthapuram district

KVK has established a custom hiring centre under SCSP scheme, with the objective of providing agricultural machinery on hire to small and marginal farmers at reasonable rates. The vision is to promote custom hiring of agriculture machines/ implements and skilled labour force for carrying out various agricultural operations. Keeping this in view, vocational training was provided to 31 SC rural youths (Aryanad Agroyenthra 1 & 2) in two batches thereby developing technicians to operate the machines. The Custom Hiring Centre (CHC) provided small, marginal and needy farmers with equipments at reasonable prices.

Power tiller, power weeder, chain saw, brush cutter, portable sprayer, earth auger and other small farm machines are maintained under one roof of CHC. The hiring cost of the machineries vary from Rs.250/day to Rs.450/day. Smaller implements are provided between Rs.50/day to Rs.100/day. During the current month, technicians operated brush cutter and power tiller of 6 hp and 7 hp power rating respectively at Aruvikkara, Malayinkeezhu, Aryanad and Vellanad panchayats for land preparation covering 4.54 ha of farm land. The farmers found it easy to prepare the land for cultivating banana, fodder, nutmeg and vegetable in respective places. CHC benefits farmer and at the same time generates employment to rural youth of SC community. Based on the feedback from the farmers, availability of machineries on hire is a godsend. Cost-effective farming

practices, increased productivity, timely operations, income diversification, reduced labour dependency, and improved quality works are some of the outcomes of it. The government provided subsidises upto 80% for purchase of tractor, combine harvester, power tiller and other machineries for farmer groups.

As about 80% of the land holdings are operated by small and marginal farmers owning <0.12 ha of land, farmers will not be willing to invest in costly farm machinery and availability of these machinery for hire is a boon to them. Thus CHC plays vital role in helping farmers and reducing cost of cultivation and also improving their profits.





ICAR-Krishi Vigyan Kendra, Tumkur-I




KVK TUMKUR-I TECHNOLOGY (Millet's Health Mix – A nutritious energy drink)

Salient Features of technology:

Millet's Health Mix (which consists of millets, pulses, dry fruits and along with cardamom and dry ginger), is a whole millet based multi grain mix which can be mixed with milk and cooked in 5 minutes to use as drink or beverage. Rich in proteins, fibre, iron, thiamine, vitamin, minerals and natural antioxidants. Whole grains of millets, pulse & nuts optimally roasted and balanced blend pulverized and packed.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Tumkur-I |  |
| Name of the NF Farmer | : Sri. Chandrasekar | |
| Address with Contact No. | : S/o Puttappa, #26, Suragondanahalli, Honnavalli hobli, Tiptur, Tq. & Dist. Tumkur, Cell: 7760088249 | |
| Landholding | : Total : 06 ac Under NF : 06 ac | |
| Farming situation | : Rainfed: 03 ac Irrigated: 03 ac | |
| Natural Farming adopted in crops | : Mango (10), Jackfruit (10), Jamun (150), Water apple (10), Orange (05), Ooty apple (05), papaya (200), Cardamom (20), Coffee plant (20), Arecanut (400), Lemon (25), Banana (100), Hebbevu (200), Mahogany (200) | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 8 Lakhs | |
| Awards received | : 1. Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka during 2023) 2. Best Natural Farmer Award' 75th Independence day celebration by Taluk Office Tiptur-2021 | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Poultry farming, Nursery management, Grafting techniques. | |





ICAR-Krishi Vigyan Kendra, Tumkur-1

Farmers exposure visit to KVK

Farmers from Chikkamagaluru district with support of DATC Ajjampura visited ICAR-KVK-Tiptur, Tumkur-1 as a exposure visit on 22-04-2024. During this exposure visit Mr. Darshan, M.E. Scientist (Agriculture Extension) briefed about the vision, mission and function to be carried out at KVK and also mentioned the services available in KVK for the benefits of farmers. Dr. Keerthishankar, K. Scientist (Horticulture) explained the role and importance of terrace garden for urban people, IFS model to enhance farmer income and different types of propagation techniques in horticultural crops and

good quality seedlings production, cocopeat enrichment and entrepreneurship in nursery etc. Dr Nithyashree, K. Scientist (Home Science) highlighted the importance of different household processing techniques to reduce antinutrients in millets and also briefed about millets health benefit and value added products. During this programme farmers visited KVK demo plots such as micro plot, AC rain jet irrigation system, terrace garden, millet processing unit, IFS model under the guidance of Dr. Sathish H.S. Farm Manager. Total 40 members were participated.





ICAR-Krishi Vigyan Kendra, Tumakuru-II



KVK TUMAKURU-II TECHNOLOGY (VELVET BEANS for sustainable livelihoods for farmers)

Salient Features of technology:

Velvet beans, when used as a cover crop or green manure, typically require around 20-30 kg of seeds per acre. They have the potential to improve soil health, enhance crop productivity, and support sustainable livelihoods for farmers. Renowned for their medicinal properties, velvet beans have been utilized for centuries in traditional medicine systems such as Ayurveda. More than 1,000 farmers adopted the technology and benefited from it.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Tumakuru-II | |
| Name of the NF Farmer | : Sri. Ravish. L | |
| Address with Contact No. | : S/o Linganna, Doddahosur, Gulur (P), Tq. & Tumakuru Dist. Cell: 9900414891 | |
| Landholding | : Total: 5ac Under NF : 05 ac | |
| Farming situation | : Rainfed: 1 ac Irrigated: 4 ac | |
| Natural Farming adopted in crops | : Arecanut, Coconut, Cardamom, Coco, Pongamia, Teak, Gliricidia, Tumbergia Custard apple Rambutan, Mango, Papaya, Butter fruit, Sapota, Dragon fruit, 80 kinds of mixed tree species. Around 1,600 trees. | |
| Innovations adopted | : Vrikshayurveda and biodynamics (Gandhi Sahaja Krishi Ashrama) | |
| Annual Net Income from NF | : Rs. 8 Lakhs | |
| Awards received | : ● Krishi Pandit Award, by Gov. of Karnataka-2021 ● Best Farmer in Honeybee Rearing, by Lalbhag, Bengaluru-2021 ● Marigowda Award for Horticulture by GKVK, Bengaluru-2020 ● District level Best Farmer Award, by GKVK, Bengaluru -2019 | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Preparations of bio inputs in their farm only Gonandanajala, Kunnappajala, Kambuja, Milk microbes, Fish microbes, Vrikshayurveda, mulching, drip, charcoal, biochar, etc., | |





ICAR-Krishi Vigyan Kendra, Tumakuru-II

World Intellectual Property Day celebration at PPVFRA, NASC, New Delhi

The World Intellectual Property Day celebration took place at the Protection of Plant Varieties and Farmers' Rights Authority (PPVFRA), NASC, New Delhi on April 26th, 2024. During the event, Padma Bhushan Dr. R.S. Paroda, former Director General of ICAR, New Delhi, Dr. T. Mohapatra, Chairman of PPVFRA, New Delhi, and other dignitaries were present.

Our Tumakuru farmer Mr. KN Kumar received a registration certificate for his 'Year Round Fruiting Jamun Tree' variety in the presence of Dr. V. Venkatasubramanian, Director of ICAR-ATARI, Bengaluru, and Dr. Prakash Tripathi, Principal Scientist at ICAR HQ, New Delhi. Mr. KN Kumar, S/o. Sri Narasappa, is residing at Ajjahalli Agrahara, Koratagere Taluk, Tumakuru.





ICAR-Krishi Vigyan Kendra, Udupi



KVK UDUPI TECHNOLOGY

(Sahyadri Vermicompost - enriched with beneficial Micro organisms)

Salient Features of technology:

Sahyadri Vermicompost is an exceptional product that is crafted using a blend of coconut fronds and *Salvinia molesta*, an invasive aquatic weed that poses a significant threat to the coastal regions. This vermicompost is a highly nutritious organic fertilizer contains essential macro and micronutrients, making it an ideal choice for enhancing soil fertility. The product is also enriched with a diverse range of microbial consortia that help to promote healthy plant growth and boost soil health. Available in 5 kg and 10 kg bags, Sahyadri Vermicompost is a premium organic fertilizer that is tailored to meet the diverse needs of farmers and gardeners alike.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Udupi |  |
| Name of the NF Farmer | : Shri. Shambu Shankar Rao | |
| Address with Contact No. | : Mandarthi Village, Brahmavara Taluk, Udupi District Cell: 9844299930 | |
| Landholding | : Total : 07 ac Under NF : 05 ac | |
| Farming situation | : Rainfed: 05 ac Irrigated: 02 ac | |
| Natural Farming adopted in crops | : 5 acres of Arecanut plantation intercropped with black pepper and coco plants. Agar wood, and Mahogany timber plants and teak as boarder plants. | |
| Innovations adopted | : ● In-sito composting using microbial cultures and waste decomposers. ● Fertigation using on farm prepared Jeevamritha. | |
| Annual Net Income from NF | : Rs. 10 Lakhs | |
| Awards received | : 1. "Krishi Pandita" award from Government of Karnataka 2. Millionaire Farmer' Award from Government of India 3. UAS (B) Best farmer award | |
| Interventions of KVK in fostering NF | : Technology demonstration and training given for Jeevamritha, panchagavya, beejamritha Regular scientific support from KVK scientists for intercropping and nutrient management | |





ICAR-Krishi Vigyan Kendra, Udupi

Soil Health Awareness Program

A soil health awareness program was Jointly organized by Karnataka State Department of Agriculture and Indian Council of Agricultural Research – Krishi Vigyana Kendra, Udupi on 12th April, 2024 at Jawahar Navodaya Vidyalaya, Chara, Hebri, Karkala Tq, Udupi Dist. The program was presided over by the Principal of the School Smt. Vijaya Kumari. The resource person for the event was Dr. S. M. Shivaprakash. He sensitized the high school and junior college students about the importance of soil health in

sustainability of agriculture and mankind. He also called upon the students not to do pollution of soil with plastics and industrial wastes. The children were shown how to take soil samples for the purposes of soil testing required for growing any agricultural and horticultural crops. The students enthusiastically involved in practicals done on soil testing. Dr. Rajesh from ATMA, Karnataka State Department of Agriculture served as guest and also spoke on our responsibility to safeguard the soil for future generations.





ICAR-Krishi Vigyan Kendra, Uttara Kannada



KVK UTTARA KANNADA TECHNOLOGY (Centre for Supply of Quality planting materials)

Salient Features of technology:

KVK Uttara Kannada is producing quality planting materials of Arecanut (SAS-1), Black pepper (Panniyur -1), Cardamom (Appangala-2, ICRI-3, Mudigere-1), Coffee (Kaveri, Chandragiri), Cinnamom, Clove, Bush Pepper (Panniyur-1) etc. Till now about 3.50 Lakh seedlings were made available to farmers. Under CSS-MIDH funds ploy house, shade net house are established for fostering the nursery activities.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|--|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Uttara Kannada | |
| Name of the NF Farmer | : Sri. Vinayak Umamaheshwar Hegde | |
| Address with Contact No. | : AT : Honnepal, Post : Bare 581337, Tq. : Yellapur, District : Uttara Kannada, Cell:9482210934 | |
| Landholding | : Total : 2.0 ac Under NF : 2.0 ac | |
| Farming situation | : Irrigated: 2.0 ac (drip irrigation) | |
| Natural Farming adopted in crops | : Complete 2.0 acre with Arecanut based cropping system. Arecanut, Black pepper, Venilla, Cardamom, Banana, Coffee and Coconut. | |
| Innovations adopted | : For 200 l of Jeevamrutha 1 Kg Trichoderma is mixed and applied to crops. Also involved in beekeeping and vermicomposting, which are complementary to natural farming. | |
| Annual Net Income from NF | : Rs. 13 Lakhs | |
| Awards received | : 1. "Shreshta Yuva Krishika-2016 " award from UAS Dharwad Krishi Mela during 2017 2. "Yellapur Taluk level Best Farmer award" under ATMA Taluk level wards during 2022-23. | |
| Interventions of KVK in fostering NF | : Consultancy services, field visits, resource person during training programmes on natural farming. | |





ICAR-Krishi Vigyan Kendra, Uttara Kannada

Soil health is a key factor in sustainable agriculture

Maintaining soil health is vital for the long-term sustainability of agricultural systems. Degraded soils lead to decreased productivity, increased input requirements and higher vulnerability to pests and diseases. Healthy soils are significantly important for providing good quality foods and maintaining the services and functioning of ecosystems. Healthy soils also provide numerous other services such as water regulation, nutrient supply, gaseous exchange, and carbon sequestration. The soil sustains most living organisms, being the ultimate source of their mineral nutrients. Good management of soils ensures that mineral elements do not become deficient or toxic to plants, and that appropriate mineral elements enter the food chain.

To create awareness and advanced technical knowhow about soil health in the present situation is very much essential. Training programme on Soil health is a key factor in sustainable agriculture was organized in collaboration with

Manuvikas, a leading NGO and Azim Premji Foundation on 26th April, 2024 at Mundagod. Programme was inaugurated by the progressive farmer Shri Pavan Bhat and he expressed ill effect of heavy application of chemicals to food crop and its residual effect in the nature.

So Organic farming is the only solution for rejuvenating diversity in the ecosystem. Senior officer from Manuvikas, Shri Basavaraj Radder in his presidential remarks briefed about activities of their NGO aiming to conservation of water reservoirs, health, education and women empowerment activity and progress. Mr. B. C. Kolhar, Senior Technical Officer, KVK, Uttara Kannada explained about role of soil health for higher productivity in sustainable agriculture and demonstrated the soil sampling and testing. He also shared the activities of KVK on developing women self employment. Totally 55 farm women's benefitted from this programme.





ICAR-Krishi Vigyan Kendra, Vijayapura-I




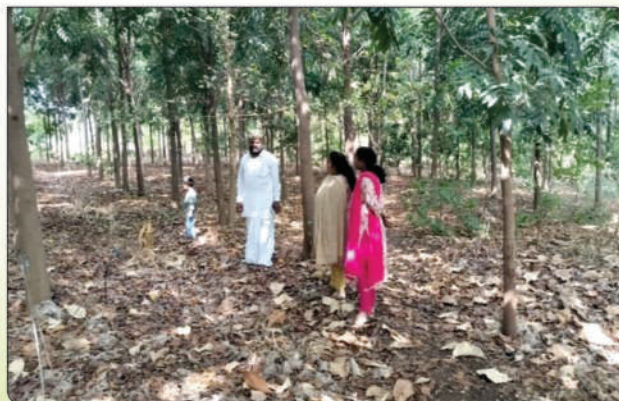
KVK VIJAYAPURA-I TECHNOLOGY (IDM for crop Health care in Pomegranate)

Salient Features of technology:

This IDM technology developed and promoted by KVK is now spread in an area of 3600 ha and use of bioagents like Pseudomonas florescence, Bacillus subtilis, Trichoderma, PSB, KSB, micronutrients in blight management has reduced the cost of plant protection, promotion of good agricultural practices, reducing the cost of production and increase in net returns. Bacterial blight disease reduction upto 8.9% and increase in marketable yield upto 13.27 percent with increase in net returns upto 1,24,840/- per ha. About 3600 ha area in the district is under IDM technology promoted by KVK.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|---|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra-Vijayapura-I |  |
| Name of the NF Farmer | : Sri. Krishnegouda Govindgouda Patil | |
| Address with Contact No. | : S/o Govindgouda Patil, Village: Cheeraldinni, Tq. Basavana Bagewadi, Dist. Vijayapura Pincode: 586216, Cell: 9448474269 | |
| Landholding | : Total : 55ac Under NF : 20 ac | |
| Farming situation | : Irrigated : 20 ac | |
| Natural Farming adopted in crops | : 500 sandalwood trees, 300 lime, 1400 Arecnut tree, 1000 Mahagany, 1400 banana, 400 Dragon fruit plant, 200 custard apple 100 guava plants, 200 coconut tree, 50 sweet lime plant, 40 tamarind trees, 20 Sapota plant and Sugarcane-5 acre | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 8.5 Lakhs | |
| Awards received | : 1. "Shreshta Krishika Award" University of Agricultural Sciences, Dharwad during 2011-12 2. "Krishi Pandit Award" Government of Karnataka during 2014 | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Training on horticultural crop production, Training on production of bio inputs. | |





ICAR-Krishi Vigyan Kendra, Vijayapura

Evaluation of Krishi Pandit awardee applicant's field in Vijayapura district

Krishi Pandit awardees applicants during 2023-24 from Vijayapura district selected by State agricultural department, Bangalore were evaluated at regional level by ICAR-KVK Vijayapura I & 2 collaborations with Joint Directorate of Agriculture, Vijayapura officers. Dr. R.B. Belli., ADE Zone -03 was the chairman of the committee, Dr. Praksah H.T., Smt. Shweta A. Mannikeri., Dr. Prakash G., were the members from KVK Vijayapura I & 2 and respective RSK also includes in

this evaluation. Based on the parameters like IFS model, adoption of innovative technology, development of innovative models/ technologies, implementation of water conservation methods like rain harvesting method, irrigation, automatic operation of watering methods to crops, adoption solar equipments, processing, branding, labeling and maintaining records based these parameters scores were given to Krishi Pandit awardees applicants.





ICAR-Krishi Vigyan Kendra Vijayapura-II (Indi)




KVK VIJAYAPURA-II TECHNOLOGY

(ARKA CITURS SPECIAL – A Micro nutrient mixutre for quality furit and increased yield)

Salient Features of technology:

Arka Citrus Special (mixture of micronutrients) more number of fruits, good size, attractive colour and quality fruits which helps in yield increment to the extent of 15-20%, if spraying is carried as per recommended dosage (5g/l) and before one month of flowering and every month till harvesting completed spray should be taken.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-KrishiVigyan Kendra, Vijayapura-II (Indi) |  |
| Name of the NF Farmer | : Shri. Rajshekar R Nimbaragi | |
| Address with Contact No. | : S/o RevanasiddappaNimbaragi,Benakanahalli Village, Indi Tq, Vijayapura Dist. Cell: 9972612756 | |
| Landholding | : Total : 10 ac Under NF : 10ac | |
| Farming situation | : Rainfed: 03ac Irrigated: 07 ac | |
| Natural Farming adopted in crops | : 370Limeplants, 250 custard apple, 145 Pomegarnate, 50 Coconut, 70 Mango trees from Horticulture unit 600 drumstick tree, 50 java plum trees, 50 guava plants, 30 Curry leaf trees and 125 Mahogany timber plants and 80Melidubia trees, Amla, and Tamarind trees along with fruits plantations. Redgram, Sorghum, Chickpea and other vegetables crop from Agricultural unit and glyricidia as a border crop. | |
| Innovations adopted | : -- | |
| Annual Net Income from NF | : Rs. 15 Lakhs | |
| Awards received | : 1. "ShrestaKrishika" Award from University of Agricultural Sciences, Dharwad during 2011 2. "KrishiPandith" state level award from Department of Agriculture, Govt. of Karnataka during 2012 | |
| Interventions of KVK in fostering NF | : Training on Natural farming, Agroforestry based farming system, Nursery for horticultural crops and preparations of bio inputs in their farm only and season and market based cultivation. | |





ICAR-Krishi Vigyan Kendra Vijayapura-II (Indi)

Event 01: Evaluation field visit to state level Krishi Pandith award in Vijayapura district: 2023-24

ICAR-KVK, Indi (Vijayapura-II): State level Krishi Pandith award announced every year from Department of Agriculture, Govt of Karnataka for the outstanding innovations in the field of Agriculture. As a part of state level Krishi Pandith award selection committee, Dr. R. B. Belli, Associate Director of Extension, Vijayapura, UAS, Dharwad and Dr. Prakash G., Scientist (Agronomy) KVK, Indi. Dr. Prakash, H. T. Scientist (Entomology), and Smt. Shwetha Mannikeri Scientist (Home Scientist) KVK, Vijayapura along with Department of Agriculture officials visited fields of different Farmers Vijayapura district applied for the award. Evaluation starts from Shri. Kashirayagouda Nilagouda Biradar of Hegdiyaly, Shri. Sangappa Satyappa

Mudagi, Jambagi, Shri Basir Ahmad Balagar of Atharga Shri Muddugouda Bhimanagouda Patil, Bathagunaki and Smt. Anitha Anilkumar Patil of Shiganpur. In this evaluation process, Scientists along with officials have witnessed the different enterprises viz, Integrated farming systems, Agri + Horti+ Forestry systems, vegetable and flower crops, Dairy, Sheep and Goat unit, fodder unit, Bee keeping, Farm ponds, Agricultural Machineries, Grape yard, Lime and Pomegranate orchard, Millets, Processing and value addition in agricultural crops as well as horticultural crops etc.. Evaluated based on the information from application as well as field visit. Farmers have practicing unique farming and there was a good completion in winning award.



Contributors: **Dr. Prakasha G.**, Scientist (Agronomy)





ICAR-Krishi Vigyan Kendra, Wayanad



KVK WAYANAD TECHNOLOGY (TRICHODERMA)

Salient Features of technology :

KVK Wayanad is the first KVK in India to remit back the entire seed amount given by ICAR (Rs 1.00 lakhs) which was refunded during 2000. KVK also purchased computer accessories from the Revolving fund and is of first of its kind in the country. KVK Wayanad is the first to start Trichoderma production among all Kerala KVK's and also soil testing lab within few years of establishing earning around Rs 25 lakhs.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | |
|--------------------------------------|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Wayand |
| Name of the NF Farmer | : Sri Sunil Kumar. M |
| Address with Contact No. | : Mathoorkulangara (H),Kallingara, Thazhathur PO, Cheeral, SulthanBathery. Pin- 673595, Mob: 9447437285 |
| Landholding | : 10 acres (own) , lease (20 acres) |
| Farming situation | : -- |
| Natural Farming adopted in crops | : 106 varieties of rice of which Madhusala, Saraswathi from Karnataka, Ramili (Punjab), Daburvali (West Bengal), Kalabath, Kalabathi, Karikgabala, Assam Black, Meeshabath, Komalbra, Jugal, Ambaemuri etc. 9 varieties of elephant foot yam, 14 varieties of yams, 11 varieties of tapioca, various fruit crops, tuber crops, turmeric, spices, chiya, sunflower and medicinal plants. |
| Innovations adopted | : He adopts plastic mulching after applying the composts and drip irrigation. He has installed solar fencing system too to protect his crops from wild life attack. |
| Annual Net Income from NF | : Rs. 4-5 Lakhs |
| Awards received | : 1. Central Government's Plant Genome Saviour award for the year 2020-21 2. District level : Best Organic farmer Award |
| Interventions of KVK in fostering NF | : The farmer follows organic cultivation for which he uses self-made inputs such as jeevamrutha and curd-jaggery mixture to keep crops healthy and disease free and other bio-control agents purchased from KVK. |





ICAR-Krishi Vigyan Kendra, Wayanad

ICAR KVK Wayanad- participated in "Vithulsavam"

KVK Wayanad participated in "Vithulsavam" exhibition conducted at M S Swaminathan Research Foundation. KVK Wayanad set up an exhibition stall at Puthoorvayal.

The programme was inaugurated by Sri. Cheruvayal Raman, Padmasree awardee. Various value added products of KVK, banners regarding natural farming and millets, biocontrol agents etc were displayed.



KVK Wayanad- Training on Natural farming

KVK Wayanad conducted one day training programme on "Natural Farming" in collaboration with ICICI Foundation for farmers from Thavani. Classes were lead by Dr. Arularasan G.S, Assistant Professor, KVK Wayanad on topics like importance of natural farming and different methods in natural farming were explained in detail. Around 20 farmers actively participated in the training programme.





ICAR-Krishi Vigyan Kendra, Yadgir



KVK YADGIR TECHNOLOGY


(Establishment of fodder bank and Stall fed sheep and goat rearing system-

To overcome fodder deficit with livelihood and economic sustainability in rural areas)

Salient Features of technology :

- Good fodder yield throughout the year
- Sheep consumes better when fed with mixed ratio of leguminous and cereal fodder
- Increases weight gain in lambs and milk yield in buffaloes
- Disease incidence is less and hence mortality rate is reduced.
- Growth rate/ animal weight gain will be more due to clean, hygienic flooring and marketing age can be reduced.
- Improved feed conversion ratio and proper scientific reproductive management can be practiced in stall fed sheep and goat system.

DETAILS OF SUCCESSFUL NATURAL FARMING (NF) FARMER

| | | |
|--------------------------------------|--|---|
| Name of the KVK | : ICAR-Krishi Vigyan Kendra, Yadgir, Kawadimatti |  |
| Name of the NF Farmer | : Sri. Vishwashankar | |
| Address with Contact No. | : S/o Santosh kumar R/o Yelleri, Tq. & Dist. Yadgir, Cell: 9620969521 | |
| Landholding | : Total : 70 ac Under NF : 12 ac | |
| Farming situation | : Rainfed: 14 ac Irrigated: 56 ac | |
| Natural Farming adopted in crops | : 25 varieties of fruit crops namely mango, sapota, jamun, sithapal, dragon fruit, guava, amla, ber coconut, drumstick, java plum, thai orange, grape fruit and other exotic in 4 acres with 5 layer method of natural farming adopted from Padmashree awardee Subash palekar Turmeric and curry leaf along with fruits plantations 1000 Mahogany timber plants in 4 acre in agro forestry model Poly hose -1 acre Betel vine cultivation. | |
| Innovations adopted | : Hydroponics for fodder production In situ preparation of natural bio inputs | |
| Annual Net Income from NF | : Rs. 6 Lakhs | |
| Awards received | : 1. "Best farmer" award from Department of Agriculture, Yadgir 2. Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka during 2022 3. Young Shresta krishika award from Dept of Horticulture, Yadgir | |
| Interventions of KVK in fostering NF | : Training on preparations and applications of bio inputs in Natural farming Agro forestry based farming system Animal Husbandry with hydroponics and silage preparation HDPs in fruit crops and Organic cultivation in vegetable crops. | |





ICAR-Krishi Vigyan Kendra, Yadgir

Annual Review 2023-24 & Annual Action Plan 2024-25

Annual Review 2023-24 & Annual Action Plan 2024-25 of KVK's of under UAS, Raichur, UAS, Dharwad and UHS, Bagalkote was jointly organized by ICAR-ATARI, Zone XI, Bengaluru, Directorate of Extension UAS, Raichur and ICAR-KVK, Raichur from 15th-17th April, 2024.

Dr. M. Hanumanthappa, Honorable Vice Chancellor, University of Agricultural Sciences, Raichur, has inaugurated the programme and addressed the scientists and officers regarding Indian agriculture war situation in international context, agriculture sector of our country is meeting the food

and nutritional security for the livelihood securities. Dr. Jayaprakashnarayan, Senior Scientist and Head, ICAR-KVK, Kawadimatti (Yadgir) presented work done report conducted during the year 2023-24 and new technical programme for the year 2024-25 of KVK, Yadgir and department of Horticulture.

Dr. S. B. Goudappa, Director of Extension, UAS, Raichur, Dr. Mallikarjun and Dr. Kolekar, Nodal officer, ICAR-ATARI, Zone XI, Bengaluru, UAS, Dharwad and Key officers of UAS, Raichur & Dharwad and Experts from ICAR and UAS, Raichur campus were present during the programme.





किडार
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