



KVK TIMES

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A Window to
KVKs of ICAR
ATARI Zone – XI
Bengaluru



ICAR KRISHI VIGYAN KENDRA KOTTAYAM
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KVK TIMES

A Window to KVKs of
ICAR-ATARI Zone -XI
Bengaluru

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VICE - CHANCELLOR

No.VC/65/2022

Dated 03/09/2022

MESSAGE

ICAR- Krishi Vigyan Kendras are the nationwide network for undertaking frontline extension activities for technology dissemination. Apart from the assessment and demonstration of technologies, KVKs play a lead role in capacity development of farmers, farm women, rural youth and other stakeholders in the country. KVKs function as knowledge and resource centre at district level for addressing the location specific problems of farmers in agricultural and allied sectors. The intervention played by KVKs with their multidisciplinary team of scientists is highly commendable.

The fortnightly e-publication 'KVK TIMES', an innovative approach of periodical compiling of the multi-faceted activities conducted by the 48 KVKs under ATARI Zone XI is laudable. An amalgamation of works implemented under different agro-ecological conditions spread across Karnataka, Kerala and Lakshadweep by the various KVKs serves as a valuable record of successful technologies. This compilation of technologies can be replicated under similar field conditions.

The joint effort put forth by ATARI, Bengaluru, Directorate of Extension, KAU and Programme Co-ordinator, KVK, Kottayam & Team in bringing out the 28th edition of KVK TIMES is highly appreciated.


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Healthy soils for a Healthy Life



FOREWORD

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निदेशक

Krishi Vigyan Kendras are well established extension systems structured by ICAR to make significant impact on socio-economic status of farmers by disseminating latest technologies in agricultural and allied sectors, capacity building programmes to entrepreneurs, and diagnostic field visits to solve field problems. The technologies developed by various Central and State Organizations, viz., ICAR institutes and State Agricultural Universities are effectively disseminated to the farming community through frontline extension systems of KVK.

Innovative programmes and activities of different KVKs are worth sharing with other stakeholders. Cross learning helps to upgrade the strength of KVKs. KVK times is a fortnightly e-newsletter to throw light on the unique achievements, and success stories and for sharing it in the KVK family. The distinct activities of KVKs under zone XI in the second fortnight of August 2022 is compiled in this edition of KVK times.

I take this opportunity to acknowledge the support received from Dr.R. Chandra Babu, Vice Chancellor and Dr. Jayasree Krishnankutty, Director of Extension, Kerala Agricultural University.

I extend my appreciation to the Programme Coordinator, KVK, Kottayam and her team for exquisitely compiling the 28th edition of 'KVK Times'.

Bengaluru
05 September 2022

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DR. JAYASREE KRISHNANKUTTY M.
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MESSAGE

Dr. Jayasree Krishnankutty, M.
Director of Extension
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Krishi Vigyan Kendras are the agricultural knowledge and resource centre for farmers, farm women, rural youth and extension stakeholders at district level. KVKs work towards farmer centric growth in agriculture and allied sectors through application of appropriate technologies in an agro-ecosystem perspective through technology assessment, refinement and transfer to the farming community. KVKs play a vital role in increasing productivity and the income of the farmer. The Krishi Vigyan Kendra Kottayam located at Kumarakom under Kerala Agricultural University functions as a strong linkage between research system and the extension system. The rich bio-diversity and specific farming situations in Kottayam district, especially the below sea level farm lands provide scope for diverse systems of cropping integrated with livestock and fish. Though one of the youngest KVKs in Kerala, this KVK is doing very meaningful intervention to benefit different types of farmers and farm based enterprises and offer support services at all critical junctures to them.

KVK Times, the fortnightly newsletter by ATARI Zone XI to showcase the important activities undertaken by KVKs will act as a source of inspiration for the stakeholders in agriculture. This e-publication will enhance visibility of KVK activities among the stakeholders.

I congratulate the sincere efforts by the Programme Co-ordinator and the team KVK Kottayam for bringing out the 28th edition of KVK Times in a comprehensive manner

Dr. Jayasree Krishnankutty, M.
Dr. JAYASREE KRISHNANKUTTY
Director of Extension



ACKNOWLEDGEMENT

DR. JAYALEKSHMI G.
Senior Scientist & Head
KVK, Kottayam

I take immense pleasure in offering my sincere gratitude to our Honourable Vice Chancellor Dr. R. Chandra Babu for his sumptuous professionalism and work ethic which inspired us to serve the farming community to the best of our capabilities.

I would also like to express my heart felt thanks to Dr Jayasree Krishnankutty M., Director of Extension KAU for all her timely interventions, suggestions and support which ultimately helped KVK Kottayam in achieving our mandates.

I am honoured to thank Dr. V. Venkatasubramanian, Director ATARI, Bengaluru for his guidance and overwhelming support to carryout our activities efficiently.

I would also like to thank Dr. D.V.S. Reddy, Principal Scientist ATARI and Nodal officer, KVK, Kottayam for his constant encouragement and valuable insights.

I am immensely grateful to the team of ATARI, Bengaluru for presenting us the opportunity to record and document the KVK activities of Zone XI in the second fortnight of August 2022.

I would also like to thank all 48 KVKs of Zone XI for providing us with insights and inputs.

Finally I would like to thank and appreciate the sincere efforts put in by the entire team of KVK Kottayam in curating and editing this issue.

Dr. Jayalekshmi G

ONAM CELEBRATION 2022 @ KVK



CONTENTS

1	ALAPPUZHA	9
2	BAGALKOTE	10
3	BALLARI	12
4	BELAGAVI-I	13
5	BELAGAVI-II	13
6	BENGALURU RURAL	15
7	BIDAR	16
8	CHIKKABALLAPURA	17
9	CHIKKAMAGALURU	18
10	CHITRADURGA	18
11	DAKSHINA KANNADA	20
12	DAVANAGERE	21
13	DHARWAD	22
14	ERNAKULAM	24
15	GADAG	25
16	HASSAN	26
17	HAVERI	27
18	IDUKKI	28
19	KALABURGI-I	30
20	KALABURGI-II	32
21	KANNUR	32
22	KASARGOD	34
23	KODAGU	34
24	KOLAR	35

25	KOLLAM	38
26	KOPPAL	39
27	KOTTAYAM	41
28	KOZHIKODE	43
29	MALAPPURAM	43
30	MANDYA	45
31	MYSURU	45
32	PALAKKAD	47
33	PATHANAMTHITTA	48
34	RAMANAGARA	49
35	SHIVAMOGGA	49
36	THRISSUR	51
37	TRIVANDRUM	51
38	TUMAKURU-I	52
39	TUMAKURU-II	53
40	UDUPI	53
41	UTTARA KANNADA	54
42	VIJAYAPURA-I	55
43	VIJAYAPURA-II	55
44	WAYANAD	56
45	YADGIR	57
46	CHAMARAJANAGAR	58
47	LAKSHADWEEP	58
48	RAICHUR	59

ICAR-KVK ALAPPUZHA

KVK ACTION PLAN ACTIVITIES OFFICIALLY LAUNCHED IN THE OPERATIONAL VILLAGES

In order to have a wide coverage of the action plan activities of 2022-23 and to create adequate awareness among the stakeholders, a launching programme was organized by the KVK in the operational villages Kandallur and Muthukulam in the Muthukulam block on 27th August, 2022. Identification of partner farmers for various interventions are either completed or in progress starting from training programmes on the technologies. Thus the programme earmarks an assembling of farmers, peoples' representatives, line dept. officials, media persons and other extension workers.



Launching programme of KVK activities



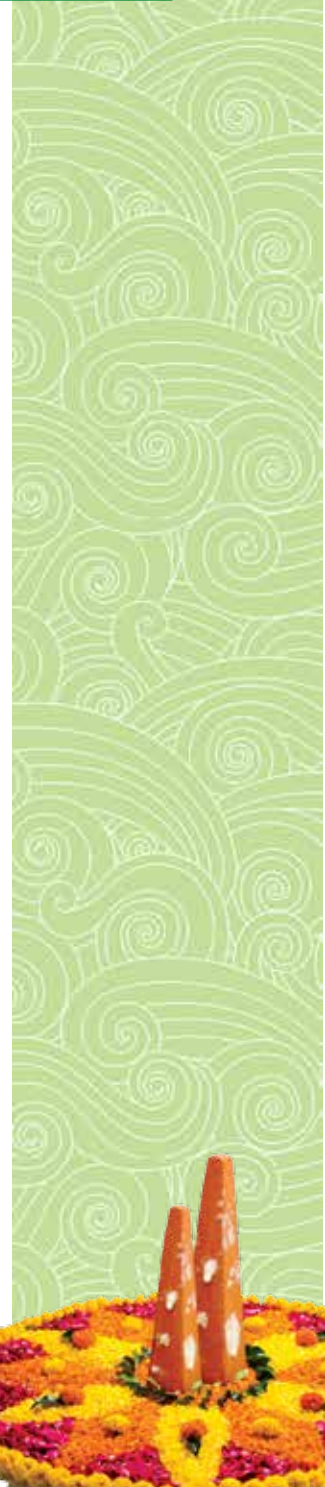
Release of newsletter



Handing over inputs

The launching programme was inaugurated by Adv. U. Prathibha, Hon. MLA, Kayamkulam at NSS Karayogam Hall at Kandallur. In her inaugural address she appreciated the initiatives and activities of the Krishi Vigyan Kendra in the farming sector as a knowledge centre and for handholding the farmers and entrepreneurs. She also added that along with efforts for promoting scientific farming and enhancing production, emphasis need to be given in processing, branding and marketing of products. Critical inputs for selected interventions viz. Goatmin, Calf starter, Snow white breed ducklings, Kera probio, Nutri garden inputs/seedlings and Plant protection inputs for

FFS in vegetables were handed over to the partner farmers by the chief guest. Smt. Ambujakshi Teacher, President, Muthukulam Block Panchayath presided over the function. Smt. Prasanna Kumari Thayyil, President, Kandallur Grama panchayath released the KVK Newsletter for the period of April-June 2022. Sri. Suresh, Block Panchayath member, Sri. Suresh Ramanamatam, Vice President, Grama panchayath, Smt. Suji, Chairperson, Standing committee, Smt. Rejeena Jacob, Asst. Director of Agriculture, Dr. P. Muralidharan, Head, KVK, and Sri. M.S.Rajeev, SMS, KVK also addressed the gathering. A short seminar on "Practical tips in vegetable cultivation" was conducted by the KVK resource persons. About 250 persons including farmers, Grama Panchayath Members, Officers of the Agricultural and Animal husbandry departments, Kudumbashree, Anganwadi teachers and Haritha karma sena members attended the programme. ■





ICAR-KVK BAGALKOTE

CELEBRATION OF PARTHENIUM AWARENESS WEEK (16-22 AUGUST 2022)



Parthenium eradication week was celebrated at KVK Bagalkote from 16.08.2022 to 22.08.2022. A total of six activities were conducted by KVK Bagalkote including uprooting Parthenium, publication of popular article involving students, staff and villagers. Students from College of Horticulture Mudigere were also involved in this event. Zygotoma beetles were also introduced to students. Totally six programmes were conducted with 77 farmers.

VICE CHANCELLORS MOVE TOWARDS VILLAGES AND INTERACTION WITH FARMERS



An innovative program Vice Chancellor's move towards the Villages was organized Krishi Vigyan Kendra, Bagalkote at Nandikeshwar village of Badami Taluk, Bagalkot on 23.08.2022. With an objective to reach more and more farmers at one go and giving solutions to the problems faced by farmers this programme was arranged by KVK Bagalkot. In his inaugural speech Dr. R Basavarajappa, honorable Vice Chancellor, UAS Dharwad explained that, this innovative programme has been planned

to cover all the seven districts under university jurisdiction namely Dharwad, Haveri, Gadag, Uttara Kannada, Bagalkote, Belgaum and Vijayapur. This is because in recent days farmers are facing many problems due to climate change, labour scarcity, market gluts etc. Hence by interacting with officials of all the departments there could be some solutions. He is planning to visit one taluk every month to listen to the problems of the farmers and provide solutions to them on the spot. Before the program field visits were arranged to various farmers fields to get an insight about the problems of farmers.

The programme was held in collaboration with the Department of Agriculture and all the other development departments including NABARD, APMC. Dr. P.S. Hugar, Director of Extension, University of Agriculture, Dharwad welcomed the assembled farmers and guests and outlined the program proposal. Joint Director of Agriculture Dr. Chetana Patil spoke in detail about the services available from the Department of Agriculture, soil testing facility, methods/customs to get crop compensation, measures for farmers to get crop insurance facility, Krishi Sanjeevini, traditional seeds and called farmers to register in e-KYC. Board Member Mr. P. Mallesha, Director of Research Dr. P. L. Patil also spoke on this occasion. Dr. R. B. Belli, ADE, zone -3, Dr. Shripad Kulkarni, Nodal Officer (KVKs), UAS, Dharwad, Dr. M. R. Kammar, Senior Scientist & Head & KVK Scientists were present on this occasion. Technical sessions were held during the programme to highlight the recent technologies in sugarcane, groundnut and maize. An exhibition was also set up involving farm machineries, seeds, fertilizers, organic inputs, products of FPOs, millets and value added products from one district one product.

University officials, Progressive farmer, Gram panchayat members, President of Nandikeshwar Gram Panchayat presided. Few farmers shared their opinion as this is an unique programme where in Vice Chancellor himself has come down to villages



to interact and such programmes need to be organized in more numbers. Members of farmer producer associations, vendors of various implements participated. The event was attended by approximately 500 farmers.

ON CAMPUS TRAINING ON MASS PRODUCTION OF BIO FERTILIZERS & BIO PESTICIDES



On campus training programme on production technologies for mass production of bio fertilizer Rhizobium and bio-agents Trichoderma, Pseudomonas and bio pesticide Metarhizium was conducted by Dr. Sudha S, Scientist (Plant Pathology) at ICAR-KVK Bagalkote to the students of Basaveshwar Science College, Bagalkote. A total of 45 BSc students along with staff were present on this occasion.

ON CAMPUS TRAINING PROGRAMME ON DAIRYING AND ORGANIC FARMING



On campus training programme on dairying and organic farming was organized in collaboration with Vikram NGO Hunagund on 25.08.2022. About 27 women farmers participated in this training & were briefed with different activities. The

ICAR KRISHI VIGYAN KENDRA, KOTTAYAM

programme was coordinated by Dr. Venkanna Balaganur, Scientist (Animal Science) & Dr. Siddappa C Angadi, Sr. Technical Officer, KVK Bagalkote.

AWARENESS PROGRAMME ON WEATHER BASED AGRICULTURE AND PETROLEUM CONSERVATION RESEARCH ASSOCIATION




An awareness programme on weather based agriculture was conducted on 25.08.2022 to Bsc students of Basaveshwar Science College at KVK Bagalkote. A total of 60 students participated and got benefit of this programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained to farmers about weather, climate, climate change, reasons for climate change, effects of climate change on agriculture, mitigation strategies, objectives of GKMS project, details about DAMU and weather based agro-advisories. Also explained about automated weather station and weather-related mobile applications like Meghdoot, Mausam, Damini. On this occasion petroleum conservation awareness programme was also organized for these students.

CANE DEVELOPMENT WORKSHOP

Cane development workshop was attended by Dr. Dinesh Kumar S P, Scientist





(Agronomy) and Dr. S.C. Angadi, Sr. Technical Officer, on 29.08.2022. This workshop was organised by Melbrone Sugars Pvt Ltd, an emerging sugarcane factory at Tulasigeri village. Cane development aspects and soil & water testing importance were dealt with, along with this information of weather based agriculture was also briefed to farmers by Mr. Sunil Lamani, Agromet Observer. More than 100 farmers participated in this programme.

On 29.08.2022 Participated as Guest lecturer on Sugarcane cultivation by Dr. Dinesh Kumar S P, Scientist (Agronomy), Importance of soil health by Dr. S.C. Angadi, Sr. Technical Officer, Weather information by Mr. Sunil Lamani at Melbro sugarcane Pvt Ltd, Sirur. A total of more than 100 farmers participated in this occasion.

OFF CAMPUS TRAINING PROGRAMME ON ICM IN TUBEROSE



Off Campus training programme on Integrated crop management in Tuberose was organized by Dr. Airadevi P Angadi, Scientist (Horticulture) at Mallapur village on 26.08.2022. Dr. Sudha S, Scientist (Plant Pathology) delivered lecture on pest & disease in Tuberose. Total 18 farmers participated in the programme. ■

ICAR-KVK BALLARI

PROBLEMATIC FIELD VISITS BY SCIENTISTS OF ICAR-KVK, BALLARI



Paddy, maize, cotton and chilli are the major cereal and commercial crops grown in Ballari district during kharif season. Among oilseeds, groundnut occupies the lion share followed by safflower and sunflower which are grown in a meagre area. However, with the onset of early monsoon, area under sunflower has increased in the current season compared to previous years.

Scientists of ICAR-KVK, Ballari along with officials of Agriculture Department, Ballari (ADA and AO's of Ballari and Kurugodu taluk) visited problematic fields of sunflower in different villages of the Ballari and Kurugodu talukas on 22-08-2022. During the visit to sunflower fields, scientists noticed incidence of viral diseases. Dr. Govindappa, M.R., Scientist (Plant Pathology) trained farmers to identify and diagnose the symptoms of leaf curl and necrosis viral diseases. Dr. Anandkumar, V., Scientist (Entomology) sensitized farmers on insect vectors that transmit viral diseases. Farmers were insisted to take up integrated pest and disease management strategies to overcome the problem. In addition to this, awareness was created on importance of weed management and integrated nutrient management in sunflower.

Further, team also visited cotton as well as maize fields and observed infestation of Pink Boll Worm (PBW) and Fall Army Worm (FAW) in cotton and maize respectively. Awareness was created on integrated ap-

proaches for the management of PBW in cotton and FAW in maize. They were made able to diagnose the symptoms of leaf blight and curvularia leaf spot diseases in maize. Suitable management strategies

were also suggested to manage the Fusarium wilt disease in maize (commonly noticed during later stage of the crop) through furrow application of trichoderma bio-agent enriched Farm Yard Manure (FYM). ■

ICAR-KVK BELAGAVI-I

ASSESSMENT OF HIGH YIELDING, SHORT DURATION TURMERIC VARIETY CIM-PITAMBER



ICAR-BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 has implemented On Farm Test (OFT) on Turmeric varieties in terms of yield, duration and curcumin content at Pamaladinni village of Gokak taluka. In this experiment widely cultivated turmeric varieties of the district Salem and IISR Pratibha are assessed against CIM-Pitamber a new variety from CIMAP-Lucknow. The CIM-Pitamber comes early in market (175-192 days) in off season yield with good curcumin content (6.2-7.3%) and yield are on par with IISR Prathibha are observed

in first year at Badigawad village. To know the effectivity and potentiality of the variety second year OFT was implemented in Pamaladinni village. Diagnostic visit was made on OFT Turmeric plots during the visit leaf spot incidence in Salem (35%), IISR Pratibha (30%) and in CIM Pitamber diseases is negligible (5%). Observed the growth characteristics of the 3 varieties like plant height and number of leaves during the visit. Discussion on nutrient management and leaf spot management was carried out on the day of visit. ■

ICAR-KLE KRISHI VIGYAN KENDRA, MATTIKOPP, BELAGAVI-II

VISIT OF DIRECTOR OF EXTENSION, UHS, BAGALKOT TO KVK

Mrs. Sridevi B. Angadi, Senior Scientist and Head welcomed the Director of Extension, UHS, Bagalkot and presented the KVK activities and progress of work done from April-2022 to August-2022. She highlighted the major achievement of the KVK and

its spread of the area in the district. Presented, the status of seed production of soybean, green gram and onion taken up during this season. Highlighted about the soil fertility index chart and call to save crop as innovative approach by the KVK, production of bio-agents and planting material and no. of soil samples analysed and Soil Health Cards provided to the farmers. Visited, demonstration blocks at KVK in-





structional farm, exhibition hall, Soil, Water and Tissue Testing Laboratory, Plant Health Clinic, Seed Processing Unit and Kisan Bazar. Director of Extension, UHS, Bagalkot appreciated the work done by the KVK and suggested to take up seed production of



UHS, Bagalkot vegetable varieties and to popularize them in the district. Promote drumstick Bhagya variety among the farmers of the region. Demonstrate exotic vegetables and flower crops suitable for the region.

TRAINING ON SCIENTIFIC LIVESTOCK MANAGEMENT

Training programme on Scientific Livestock Management was organized at Ankali, Chikodi taluk on 25.08.2022. The training programme was inaugurated by Dr. S. I. Athani, Director of Extension, UHS, Bagalkot. During the inaugural address, he



expressed that nutrition for dairy animals plays a major role to improve milk production. The nutrition has to be met through fodder and feed. He advised the farmers to deworm the cattle's regularly by following the schedule in order to overcome the parasitic infestation to the animals. Dr. Ashok Durgannavar, Chief Veterinary Officer, Animal and Veterinary Training Centre, Dept.

of Animal Husbandry and Veterinary Services, Belagavi participated as a resource person and delivered the lecture on Dairy Management and Clean Milk Production. Shri B. R. Patil, Chairman, ICAR-KLE Krishi Vigyan Kendra, Mattikopp interacted with farmers stating that majority of the farmers in the district are small and marginal farmers and livestock is an important enterprising activity to them which will contribute nutritional security and additional income to the farmers. Mrs. Sridevi B. Angadi, Senior Scientist and Head, ICAR-KLE KVK, Mattikopp welcomed the dignitaries and gathering. Shri S. M. Warad, Scientist (Soil Science) extended vote of thanks.

OFF CAMPUS TRAINING PROGRAMME ON NUTRITION GARDEN



Training on Nutritional Garden was organized to farmers and farmwomen of Murkumbi village, Savadatti taluk. During the training Mrs. Sridevi B. Angadi, Senior Scientist and Head, ICAR-KLE KVK, Mattikopp highlighted that establishment of nutrition garden at their backyard or in the farm will ensure constant supply of vegetables which will be sufficient to meet out the family requirements. The different models of nutrition garden and crop rotation was explained. Dr. S.S. Hiremath, Scientist (Plant Protection) explained about eco-friendly management practices for control pest and disease in nutrition garden.

CELEBRATION OF AZADI KA AMRIT MAHOTSAV 75TH INDEPENDENCE DAY

ICAR-KLE Krishi Vigyan Kendra, Mattikopp on eve of Azadi ka Amrit Mahotsav



celebrated 75th Independence Day at KVK Campus from 13.08.2022 to 15.08.2022. On the first day all the staff celebrated Har Ghar Tiranga by hoisting flag at their residence. The national flag was provided by the KVK to all the staff members. The flag was hoisted by Mrs. Sridevi Angadi, Senior Scientist & Head at the KVK campus on 13.08.2022 and 14.08.2022 in presence of all the staff of the KVK. On 15th August 2022 the flag was hoisted by Shri B.R. Patil, Chairman, KVK, Mattikopp and a special programme was organized to felicitate 10 Ex-Servicemen who has served the nation and now practicing agriculture as their profession. All the felicitated Ex-Servicemen expressed their experience of working with Indian Army and provoked gathering on patriotism. Majority of these Ex-Ser-

vicemen expressed their interest in taking up organic farming with technical backstopping of KVK. KVK Scientists delivered talk on production of organic manures and In-



tegrated Farming System on the occasion. The programme was witnessed by more than 100 farmers/ farm women. ■

ICAR-KVK BENGALURU RURAL DISTRICT

CELEBRATION OF AZADI KA AMRITH MAHOTSAV

Azadi Ka Amrit Mahotsav was celebrated from 13th to 15th August 2022 by ICAR-KVK, Bengaluru Rural District. On the occasion of har ghar thirang abhian, Indian national flag was hoisted on three buildings of KVK viz., Administrative building, Farmers hostel and staff quarters on 13.08.2022.



we celebrated 75th Independence Day on 15 August 2022 with great joy and pomp. On that day the sense of happiness

and pride could be clearly seen on the faces of all the people as India was celebrating its Amrith Mahotsav on 15th August 2022. The programme was started at 08:15 am, Senior Scientist and Head unfurled the flag at 8:30 am. As soon as the flag was hoisted, all sang the national anthem. After that, Senior Scientist & Head gave an in-depth speech on how we got freedom with a motivation & patriotism. The programme was ended by distributing sweets to all the staff. 25 students from College of Horticulture, Hiriyyur and 25 staff members were participated in the programme.

CELEBRATION OF PARTHENIUM AWARENESS WEEK FROM 16TH TO 22ND AUGUST 2022 BY ICAR-KRISHI VIGYAN KENDRA, HADONAHALLI, BENGALURU RURAL DISTRICT

Parthenium is major weed causing more damage for cultivation of crops and also mankind. In this regard, Parthenium Awareness Week was celebrated from 16th to 22nd August 2022 at ICAR-KVK, Bengaluru Rural District by conducting series of activ-



ities at ICAR-Krishi Vigyan Kendra, Hadonahalli, Doddaballapura taluk. On 16.08.2022, awareness programme to KVK staff was orga-

nized at KVK. In collaboration with AICRP on Weed Control Project, Hebbal, UAS, Bengaluru Parthenium awareness day was organized on 17.08.2022. Dr. A. P. Mallikarjuna Gowda, Senior Scientist and Head, briefed the gathering about significance of celebration and the harmful effects caused by parthenium. Dr. J. Venkate Gowda, Scientist (Agronomy) explained about parthenium control including removing plant before flowering stage and spraying of recommended weedicides.

Dr. K.N. Geetha, Professor and Head, AICRP-Weed Control and Dr. S. Kamala Bai, Junior Agronomist were participated in the programme and briefed about various cultural methods of eradication, various management techniques such as methods of composting and biological control methods for its control. On 18.08.2022 and 19.08.2022 a Shramadhan from KVK staff and DAESI students was organized and all the participants uprooted parthenium weeds in the campus premises.



ICAR-KVK BIDAR

WORLD BIO FUEL DAY CELEBRATION AT ICAR-KVK BIDAR



Shri Kiran Kumar, President, Karnataka State Bio Energy Development Board inaugurated the World Bio-fuel day and two days hands on training for BRIDC staff of Kalyan Karnataka by lighting lamp on 24.08.2022. In his inaugural address he urged the use of bio fuel to reduce the pressure on the use of conventional fuel

by the collective efforts of public and farmers where we need to promote the bio-fuel production through the Agro bio products. The event was organised by ICAR-KVK Bidar in collaboration with Karnataka State Bio Energy Development Board and Karnataka State Science and Technology Council, Bengaluru on Wednesday 24.08.2022. The managing director of the board, Sri K R Rudrappa briefed the foot prints of activities of the Bio fuel Board and convinced about the necessity of the application of alternate forms of fuels in agriculture for sustainable development. The demonstration on bio- diesel production and KVK tractor which uses 20 percent bio fuel mixed diesel was witnessed by the seven district staff of BRIDC and students of Agricultural diploma and the farmers. In this event Dr Sunil Kulkarni, Campus Head, ARS Bidar, Dr Sunilkumar N M, Senior Scientist and Head and Dr. Ningdalli Mallikarjun, Coordinator BRIDC Bidar were present.

GREEN GRAM FIELD DAY

The large scale demonstrations in a cluster on ICM in green gram under NFSM-CFLD programme was concluded with field day at Taranalli village of Bhalki taluka Dist



Latitude: 17980153
Longitude: 77310485
Elevation: 601.0615 m
Accuracy: 9.6 m
Azimuth: 245° (SW)
Pitch: -72° (2.5°)
Time: 08-20-2022 12:07
Note: ICAR KVK BIDAR, CFLD on Bank gram ICM
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Latitude: 17981453
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Bidar on Friday the 26th August 2022. Among the 75 farmers present in the event Shri Gurunath V Biradar a young farmer has briefed all the technologies practiced from land preparation to post harvest

technologies by the farmers as per the guidance of KVK Scientists. Dr Sunilkumar N M Senior Scientist & Head KVK Bidar explained the science behind practices demonstrated to the farmers regarding integrated crop management practices and post harvest technologies in pulses. The agriculture officer, Smt. Sattyabhama has appealed the farmers to register e-KYC for government facility. Dr Ningadalli Mallikarjun, Scientist briefed about the seed treatment procedures and its advantages during the demonstrations. The technologies demonstrated were adopted by the neighboring farmers specially the stem fly management, use of pulse magic and super grain bags for storage etc. The other farmers have reserved the BGS-9 variety seeds for next season. ■

ICAR-KVK CHIKKABALLAPURA



Training on ICM in cucumber



Training for probationary officers under Rural Immersion Programme for probationary officers on 19.08.2022

On campus trainings was organized by KVK, Chikkaballapura for probationary officers of Canara bank under Rural Immersion Programme on 19.08.2022. and



25.08.2022. Dr. Tanweer Ahmed explained about different issues like risk and opportunities in agriculture, financing in agriculture and managerial skills required for addressing the farmers problems.

Training programme on Integrated crop management in Cucumber was organized at Kootrajanahalli village of Chintamani taluk on 17.08.2022. Dr. Sandhya, Scientist (Soil Science) explained about integrated nutrient management in cucumber, Dr. Praveenakumar, Scientist (Horticulture) explained about improved cultivation practices in cucumber. ■





ICAR-KVK CHIKKAMAGALURU

FIELD DAY ON HIGH YIELDING VARIETY OF SUNFLOWER (KBSH-41)

I.C.A.R-Krishi Vigyan Kendra, Chikkamagaluru has organized Field day Programme on Sunflower high yielding variety

and India is one of the largest producers of oilseed crop in the world. Sunflower crop are processed into cooking oil, meal and confectionary products and also it is used primarily as an ingredient in livestock feed and in recent days oil value is becoming more expensive and hence growing this cultivar leads to gain extra income and also advised the farmers to make utilize the capacity development programmes and other extension activities conducted by KVK for the benefit of farming communities.



(KBSH-41) on 26.08.2022 at Jodilingadahalli village of Kadur taluk. During introductory remarks Dr. A. T. Krishnamurthy, Senior Scientist and Head, KVK, Chikkamagaluru, briefed that sunflower is one of the most important oilseed crops. It is a major source of vegetable oil in the world

Dr. Girish, R., Scientist (Plant protection), KVK, Chikkamagaluru, explained about the major pest and diseases infesting on sunflower and their integrated management and further briefed about the importance of micronutrients in seed formation.

On this occasion, Dr. Dhanalakshmi, Scientist (Soil Science), KVK, Chikkamagaluru, Shri. Nagegowda and Shri. Beeregowda, progressive farmers participated. A total of 30 farmers participated and got benefited out of this programme.

ICAR-KVK CHITRADURGA

PARTHENIUM AWARENESS WEEK FROM AUGUST 16TH TO 22ND 2022

Mexico and it was noticed in 1964 Pune. Now it is found in all places such as road side, waste lands, cropped field, railway tracks etc. He also suggested to manage the Parthenium weed, destroy the weed before flowering and incorporated into the cropped field for soil enrichment of soil, use non selective herbicides , use Cassia toriaas a allopathic crop for effective management which release root exudates which inhibit the germination of Parthenium weed seeds and use of bio agent (Zyrogramma Bicolorata) which feed on Parthenium leaves, flowers etc. Dr. PrakashKerure, Scientist (Horticulture) explained how to make use of Parthenium waste into composting as it is rich in potash and very much useful in perianal horticulture crops . Dr. S. Onkarappa, Scientist plant protection explained the biological control of Parthenium by using Zyrogramma Bicolorata which is host spe-



Parthenium Awareness Week from August 16th to 22nd, 2022 was celebrated at KVK Chitradurga with an emphasis on parthenium weed. Dr. Kumara. O., Senior Scientist and Head, briefed the history of Parthenium, Parthenium is one of the most problematic weed in India and which is introduced through wheat import form



cific and which is more feeding on Parthenium plant parts. End of the programme was concluded by removing Parthenium weeds in and around office premises by the participants.

FODDER SLIPS DISTRIBUTION PROGRAMME FOR NICRA VILLAGE



Dr. O. Kumar, Sr. Scientist and Head, ICAR-KVK, Chitradurga welcomed the dignitaries to the programme and he briefed the activities of NICRA project which is newly implemented in Yalagatte village of Challakere taluk.

The programme was inaugurated by Dr. R.C. Jagadish, Honourable Vice Chancellor, KSNUAHS, Shivamogga at ICAR- KVK, Chitradurga on 17-08-2022 along with Director of Education Dr. H. Hanumanthappa and Comptroller Dr. Shivashankar. The Vice chancellor interacted with the farmers of Yalaghatte village, Challakere taluk and gathered information on NICRA project implemented by KVK, Babbur farm and also addressed the gathering and opined that farmers participation is the key success of any government projects. Now KVK plays vital role in transfer of technology to the farming community and also University extence all kind of support and guidance for the betterment of farmers. At the end of the programme setts of fodder variety “Super Napier” were distributed to the farmers of Yalaghatte-village, Challakere taluk by the dignitaries.

The beneficiary farmers of NICRA project also expressed their opinion on various activities carried out at yalaghatte village under NICRA project

SWACHATHA ABHIYANA

Swachatha Abhiyan programme was celebrated in ICAR Krishi Vigyan Kendra, Babbur farm, Hiriyyur on 22-08-2022.

Dr. Sharanappa Jangandi, Associate Director of Research, ZAHRS, Hiriyyur presided over the programme and during his speech, he opined that women participation in agriculture is more essential to improve the economy of the country. During independence the agriculture production was very

low and now it has improved up to 306 lakh million tons. He also opined that the implementation of Five year plans need to be well planned and finally he appreciated the work of SKDRDP institute.

Dr. Kumara O., Senior Scientist and Head discussed about the present day situation in agriculture sector in India. In order to earn greater profit, farmers should grow commercial crops, area under commercial crops need to be increased at the same time farmers should not neglect the food crops also. He also insisted the farmers to grow the quality crops. Further he provided information about the problematic weed - Parthenium. Further he also briefed about the causes of plastic menace and how




it has been contaminated the animal body in further it will be contaminated to human body also. He also suggested to maintain the clean surrounding and to minimize the usage of plastic.

Dr. S. Onkarappa, Scientist (Plant protection) discussed about the various pest and diseases of Groundnut, Maize, Onion, tomato, pomegranate and Arecanut crops. Dr. Prakash Kerure, Scientist (Horticulture) discussed about the cultivation aspects of various flower crops such as button rose and Chrysanthemum, uses of organic manures, bio fertilizer, new varieties of various horticulture crops released by IIHR and suitability of horticulture crops for dryland situation.

The programme was hosted by Mrs. Geetha Kumari B.N.,





Programme Assistant, KVK and Mr. Harsha, ADH, DoH, Chitradurga, officials from SKDRDP along with Diploma students of horticulture and farmers were present during the programme.

FARMERS SCIENTIST INTERACTION



Dr. S. Onkarappa, Scientist (Plant Protection), ICAR-KVK Chitradurga along with Dr. Virupakashappa, Senior Assistant Director of Horticulture, Challakere on request of Chrysanthemum crop grower organized Farmers Scientist Interaction meeting on Management of pest and diseases in Chrysanthemum at Ramadurga village of Challakere taluk on 18-08-2022. He suggested to the farmers to use sticky traps along with insecticide application for effective management of thrips as a eco-friendly method and to control leaf blight disease grow with wider spacing. Further he also opined that use of alternative pesticides is essential way to management pest and diseases effectively in Chrysanthemum.



VOCATIONAL TRAINING PROGRAMME FOR RURAL YOUTH

ICAR-KVK Chitradurga organized 20 days vocational training programme for Rural Youths from 22-08-2022 to 14-09-2022. The course co-ordinator, Dr. Prakash Kerure, Scientist (Horticulture) briefed the activities in horticulture regarding empowerment in horticulture nursery sector, production of vermicompost, concept of kitchen gardening for nutrition security.

Dr. Kumara O., Senior Scientist and Head welcomed the participants and he emphasised on flagship programmes like Onion seed production, Fodder seed production, Climate resilient technologies in agriculture etc. of KVK Chitradurga. He also suggested to interact with progressive farmers and well developed entrepreneurs to develop yourself as entrepreneur in horticulture sector.

Shri. Rajendra G. Mavinkurve, Founder and Director, Jeevasudha Greentech Pvt. Ltd. an entrepreneur working on Bio-input production unit under start-up incubation programme at KVK Chitradurga. He briefed about the journey of a start-up, the various funding options for start-up projects from government sectors available for the youths. He also stressed on the need of bio inputs their importance, mode of application. The participants were provided with a live demonstration of media preparation, inoculation techniques, and the procedure for mass production of Trichoderma, Pseudomonas etc, including packaging, labelling and marketing of the bio inputs. ■

ICAR-KVK DAKSHINA KANNADA MANGALURU

AGRICULTURE INFORMATION CAMPAIGN

Dr. T.J. Ramesha, Senior Scientists and Head, Krishi Vigyan Kendra, Dakshina Kannada, Mangaluru participated in the agriculture information campaign organized

by Mulki Zonal Krishik Sangh at Milk Producer Cooperative Society, Kenchanakere, Mangaluru Taluk. In his deliberation covered mandated activities of the KVK and focused on organic farming, farm mechanization, Soil test based recommendation



integrated farming system, value addition aspects for doubling the income. Director, Secretary of the Milk Producer Corporative Society, president and vice president of Kilpadi Grama Panchyath and RAWE students of UAS, Dharwad & 32 farmers were participated in the programme. As a part of the



programme the retired agriculture officer Mr. Abdul Basheer was felicitated by the dignitaries.

INTEGRATED CROP MANAGEMENT IN BLACK PEPPER AND APPEMIDI MANGO

ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in collaboration with

Department of Horticulture, Belthangady organized a capacity development programme on integrated crop management practices in black pepper and appemidi mango at Kaliya village of Belthangady taluk. Mr. Chandrashekhar, SADH, Department of Horticulture, Belthangady, welcomed the gathering and highlighted about schemes and programmes. Dr. Kedarnath, Scientist (Plant Protection) briefed about



integrated crop management practices in black pepper and appe midi mango crops and other important horticulture crops of the district. A total of 65 farmers were benefited from the programme. ■

ICAR-KVK DAVANAGERE

POPULARIZING THE ARKA VEGETABLE SPECIAL IN CABBAGE ECOSYSTEM

Follow up visit to FLD-ICM in Cabbage plots of Kodaganuru village was carried out. Dr. Avinash T. G. SMS (Plant Protection) explained the significance of Arka Vegetable Special in increasing the growth and yield of Cabbage. It contains micronutrients viz., Zn, Fe, B, Mn and Cu. Due to continued use of DAP and urea fertilizer in cabbage resulting in reduction of micronutrient uptake. Use of Arka Vegetable Special @ 5 g/l first spray at 35 days after transplanting, further, at 15 days interval till harvest will helps in increase nutrient uptake and also head size and weight. Advised farmers to use a sachet of shampoo and lime juice which helps in enhancing Arka Vegetable Special efficiency. Mr. Mallikarjun B. O. SMS (Agronomy) was present during the visit. Arka Vegetable special was provided as a critical input to the FLD farmers.



CELEBRATION OF 75TH INDEPENDENCE DAY

Dr. Devaraja T. N., Senior Scientist cum Head hoisted the National Flag and addressed the gathering. He said that this nation has survived all the hurdles and shown to the world that democracy in India is here to stay. It has provided space for all to develop and continue to grow to make the world a better place to live on, he added. The "Bike Jatha" was undertaken by all staff





from KVK to Kesarivana (15 kms) passing through Davanagere City. Independence day special slogans were cheered and National Flags were held high all along. Felicitated Freedom fighters Sri. B.M. Shivalinga Swamy and Sri. Thippeswamy at their residences to commemorate Azadi Ka Amrith



Mahostav. All the staff of KVK took the blessings of legendary couples. The family members were pleased and over joyed to see KVK staff interacting with their elders.

METHOD DEMONSTRATION OF AZOSPIRILLUM USE IN PADDY BY "SEEDLING ROOT DIP"

Implemented Front Line Demonstration on Integrated Crop Management in



Paddy at Hirekogaluru village of Channagiri taluk. Dr. Avinash T. G. SMS (Plant Protection) and Mr. Mallikarjun B. O. SMS (Agronomy) demonstrated the Azospirillum usage in paddy through seedling root dip method. About 400 g of Azospirillum required to treat for one acre seedlings. Azospirillum helps in the biological fixation of Nitrogen. Use of bio-fertilizers in paddy will decrease the chemical fertilizer dependency. Created the awareness about bio-fertilizer usage in agriculture. Azospirillum was provided to farmers as a critical input. Twenty farmers participated in the demonstration. ■

ICAR-KVK DHARWAD

CELEBRATION OF PARTHENIUM AWARENESS WEEK BY ICAR-KVK, DHARWAD



Parthenium, popularly known as Congress grass or gajar ghas is an economically important invasive weed found everywhere in the country. Parthenium weed not only infests the crop field and reduce the productivity but also causes many health problems in human and animals, besides deteri-

orating environment and bio-diversity. So, to create awareness among the people and farmers about the harmful effect of parthenium and its management, Parthenium Awareness Week is celebrated every year during the month of August. ICAR-Krishi Vigyan Kendra, Dharwad celebrated Parthenium Awareness Week from 16-22 August, 2022 and created awareness regarding parthenium eradication, methods of management and health issues. On 16.08.2022, parthenium eradication was done at KVK farm with the help of staff, farm labours and released the mexican beetles at KVK farm. Created the awareness to Diploma (Agri) students about harmful effects of parthenium on human health and animal health on 17.08.2022 and conducted rally in the campus. KVK Scientists along with Shri Shivarudrappa, Assistant Director of KSSOCA, Dharwad visited farmers fields in Morab village of Navalagund taluka on 18.08.2022 and created awareness regard-



ing ill effects of parthenium. Parthenium Awareness Meeting was organized by ICAR-KVK, Dharwad at Hiregunjal village of Kundagol taluka on 19.08.2022 and created awareness about parthenium menace and its management, utilization of parthenium for compost making to the farmers. KVK Scientists conducted Parthenium Awareness Campaign to the B.Sc. (Agri) I year students on 20.08.2022 and created the awareness about health hazard of parthenium on livestock to the farm women from Haliyal taluka on 22.08.2022. Staff along with the students uprooted the parthenium and released the mexican beetles at KVK farm. About 129 farmers, farm women, students and staff participated in Parthenium Awareness Week.

FIELD VISIT TO EVALUATE APPLICANTS FOR SHRESHTA KRISHIKA AWARD 2022



University of Agricultural Sciences, Dharwad invited applications for Shreshta Krishika/ Krishi Mahile Award for the year 2022. Scientists from Krishi Vigyan Kendra, Dharwad visited the applicants fields to evaluate fields. Dr. Punitha B. C., Scientist (Soil Science), ICAR-KVK, Dharwad and Smt. Kalavathi K. Kambali, Scientist (Plant Protection), ICAR-KVK, Dharwad visited farmers fields of Shri Basavaraj Chandaragi at Pudakalakatti village and Shri Arunkumar from Kalle village on 23.08.2022. During the visit, fields were evaluated based on the information provided, practices of soil and water conservation, cropping systems, agri-silvi culture, animal husbandry etc.

FIELD VISIT TO MILLET CONSERVER FIELDS

Shri Ishwaragouda Patil from Mattigatti villages of Kundagol taluka is a conserver of traditional varieties of seeds and has been actively involved in collection and conservation of indigenous varieties of millets like finger millet, foxtail millet, little millet

and jowar. During kharif 2021, had established a biodiversity block of 72 Ragi varieties. He has followed



organic cultivation practices under Guli ragi method of cultivation and has collection of more than 80 varieties of finger millet and few varieties of other millets. He has also shared his collection of seeds with other farmers, seed banks and different organizations involved in seed conservation. He has worked in popularizing of millet crops in the area. Scientists visited his field on 24.08.2022 and guided him to apply for Genome Saviour Award of PPVFRA, New Delhi.

TRAINING PROGRAMME ON PETROLEUM CONSERVATION RESEARCH ASSOCIATION (PCRA)

ICAR-KVK, Dharwad organized on campus training on Petroleum Conservation Research Association (PCRA) for farm women of Chawaragudda, Ramapur and Channapur villages of Kalaghatagi taluka on 29.08.2022. PCRA is a registered society set up under the aegis of Ministry of Petroleum & Natural Gas, Government of India. In this training programme, Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad created awareness on fuel conservation, fuel-efficient equipment/ devices, sustainable





agriculture, horticulture nurseries, machines and equipments used in horticulture crops. Field visit to KVK instructional farm and different demonstration units was also organized for the farm women. Awareness on mechanical harvesting machine for different agriculture and horticulture crops was given through videos. About 30 farm women participated in the training programme. ■



ICAR-KVK ERNAKULAM

KVK PARTICIPATED IN FARMERS' DAY CELEBRATIONS

TECHNOLOGY BACKSTOPPING TO WOMEN SHG ON MARIGOLD FARMING



KVK participated in Farmers' day celebrations at Nellikuzhy and Narakkal held on 17th August 2022 that falls on the first day of the first Malayalam month Chingam. Shri Shoji Joy Edison, Subject Matter Specialist (Horticulture) led class on Integrated Nutrient management in Banana and vegetables at Nellikuzhy. At Narakkal, Shri F Pushparaj Anjelo, Subject Matter Specialist (Agrl. Extension) conducted training on Organic farming in Coastal ecosystem. Awareness campaign on Importance of Parthenium eradication was also conducted at both places. Local Krishi Bhawans of State Government coordinated the programmes. The programme at Narakkal was inaugurated by Shri K.N. Unnikrishnan, Member of Legislative Assembly of Vypeen constituency. ■

KVK provided technology backstopping to a Women JLG on Marigold farming. The SHG named "Rose" commenced the farming at Veliyathunad targeting Onam market. Fresh flowers are essential to decorate courtyards for ten days prior to Onam day. Generally the flowers arrives from nearby states. The staggered planting was done during June to ensure flower supply on Onam days in August-September. Shri. P. Rajeev, Industries Minister and Member of Legislative Assembly of Kalamassery constituency inaugurated the harvest. Karumallur Panchayath president Smt. Sreeletha Salu, ATMA Project Director Smt. Sheela Paul, Subject Matter Specialist (Horticulture) of KVK Shri. Shoji Joy Edison, ADA Alengad Smt. Vidhya Gopinath and ATMA BTM Shri Nishil T K participated. Around 4.5 - 5 lakh rupees profit is expected from 1.25 acres. ■



ICAR-KVK GADAG

ACTIVITIES ON 15TH AUGUST 2022



Flag hoisting ceremony was organised at ICAR-K.H. Patil Krishi Vigyan Kendra, Hulkoti, Gadag on 15th August 2022. On this occasion, various programme viz., Awareness on Integrated Farming System and Millet nutrition to college students, Hulkoti was organised at KVK campus. 121 students and 20 staff members participated in the programme.

Another programme was arranged at Beldhadi village in Gadag block of Gadag district. Knowledge was imparted on contingent crop planning in view of excess rainfall and subsidiary occupations in Animal Husbandry for improvement of livelihood. 180 school children and 70 farmers and farm women participated in the programme.

CELEBRATION OF PARTHENIUM AWARENESS WEEK-2022



ICAR-K.H. Patil Krishi Vigyan Kendra, Hulkoti in Gadag district of Karnataka State organized "Parthenium Awareness Week" (16-22 August, 2022) in KVK premises as well as in adopted villages.

KVK has organised awareness programmes in KVK adopted villages viz., Singatarayanakeri village of Mundaragi taluk and Beladadi village of Gadag taluk. Dr.Gururaj Kombali, Subject Matter Specialist (Agronomy) briefed the farmers about menace of Parthenium causing health problems in human beings, animals and reduction in crop productivity. He also spoke on Management of Parthenium through

mechanical uprooting, biological control methods like introduction of Mexican Beetle *Zygogramma bicolorata* and also on utilization of Parthenium bio-mass for making compost. Various programmes like Uprooting of Parthenium, Awareness programme on bio-control of Parthenium, Training on Parthenium management in agriculture lands, Awareness programme on 'control of Parthenium in enhancing agriculture productivity' to Degree College students were organized. More than 195 people participated in the programme.

DEMONSTRATION OF DRONE SPRAYER IN MAIZE AND CHRYSANTHEMUM



Drone sprayer was demonstrated at Shingatrayerankeri village of Mundaragi Taluk in Maize and Chrysanthemum crops on 20-08-2022. Shri. N.H.Bhandi, SMS (Soil Science) briefed about the advantages of drone spraying over conventional methods. Dr. Vinayaka Niranjana, SMS (Ag. Engg.) explained about operating methods, utility and effectiveness of drone sprayer. Dr. Gururaj Kombali, SMS (Agronomy) briefed about saving in time and labour using drone sprayer. Totally 34 farmers witnessed the demonstration. They interacted with scientists and expressed their willingness to use the drone technology for pesticide spraying in future days.





ICAR-KVK HASSAN

PARTHENIUM AWARENESS WEEK

The KVK Hassan has organized the Parthenium awareness week at KVK, Hassan.



Dr. Rajegowda, Senior scientist and Head, KVK, Hassan has inaugurated the programme and during his inaugural speech he mentioned that parthenium is an obnoxious and poisonous weed which will harm the health of the animals and humans. So, cleaning of parthenium in and around our environment is very important to keep environment safe and clean. Dr. M., Shivashankar, Scientist (Home science),



KVK, Hassan has mentioned about importance of removing parthenium from the farming field in order to avoid yield loss to the farming community. Dr. Srinivas Deshpande Scientist (Agricultural Engineering), KVK Hassan has briefed the health issues from this weed and also given the account of losses happened to the farming community due to this weed in all over the world. Dr. Sanketh, C. V., Scientist (Agricultural

Extension), KVK, Hassan has organized the programme and stated the motto behind this campaign organization. Finally all scientists and staff of KVK have uprooted the parthenium present in and around the KVK premises.

75TH INDEPENDENCE DAY CELEBRATION



ICAR-KVK, Hassan has celebrated the 75th Independence Day on 15/08/2022 at KVK Premises. Dr. Rajegowda, Senior Scientist and Head, ICAR-KVK, Hassan has hoisted the flag and addressed the gathering on status of Indian agriculture: post-independence scenario, duties, responsibilities, rights of citizens in building the nation and also he explained how KVK has celebrated Azadi ka Amrut Mahotsav throughout the year with different programmes. Dr. M. Shivashankar, Scientist (Home science) KVK, Hassan during his introductory remarks, he mentioned the struggle of freedom fighters to free the nation from the British Empire and provide independence to the nation. After flag hoisting, senior scientist and head, scientists and office staffs planted trees in the office premises to make the Azadi Ka Amrut Mahotsav Independence Day programme as a memorable one and also taken the oath to work in unity to make institute successful. ■



ICAR-KVK HAVERI

HONOURABLE MINISTERS VISIT TO UAS DHARWAD EXHIBITION STALL AT MILLETS CONCLAVE-2022

On account of Millet Conclave – 2022 KVK Haveri represented from the UAS Dharwad at, Raichur. UAS Dharwad exhibition stall at “Millet Conclave”, UAS Raichur was inaugurated by Shri. B. C. Patil, Hon’ble Minister of Agriculture, Govt. of Karnataka and suggested to give more emphasis on millet value added products by creating more FPO’s. Millets are smart foods of the 21st century because they are “good for human being, the farmer and the planet.” They are the last crops standing during droughts. Millet fodders are also good for animals. Millets are the amazing crops best suited for dry land soils. These can sustain even under aberrant weather conditions (climate of twenty first century) where most of other major crops fail. These are nutritionally rich and help in overcoming malnutrition and food insecurity. Later exhibition stall was visited by Sushri. Shobha Karandlaje, Hon’ble Minister of Agriculture & Farmers welfare, Govt. of India viewed different millet value added food stuffs and reviewed millet production technologies exhibited in the stall. Recently introduced millets fetch higher market val-



UAS Dharwad exhibition stall at “Millet Conclave”, UAS Raichur was inaugurated by Shri. B.C. Patil, Hon’ble Minister of Agriculture, Govt. of Karnataka



Sushri. Shobha Karandlaje, Hon’ble Minister of Agriculture & Farmers welfare, GOI and viewed different millet value added food stuffs and millet production technologies

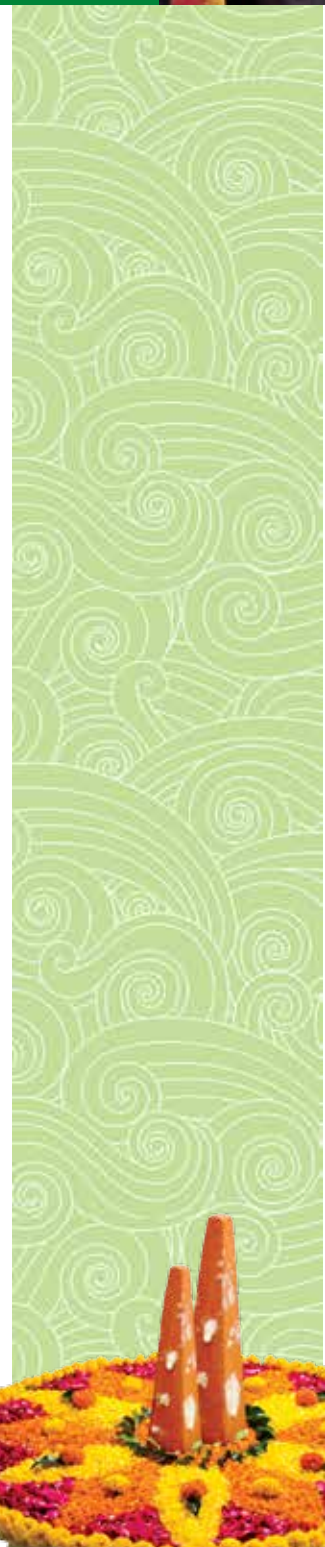


Dr. K. N. Kattimani, Vice-Chancellor, UAS, Raichur visited UAS, Dharwad exhibition stall

ue (than even major cereals) and hence help in uplifting the socio-economic status of the marginal farmers under dryland conditions. During this occasion Dr. Ashoka P, Senior Scientist & Head, KVK Haveri briefed on climate change has deleterious effect on both human welfare and agriculture production. Though, millets cultivation is advantageous, the research in improving the age-old cultivation practices is still at an infant stage and this needs to be addressed in order to popularize these healthy foods.

PARTHENIUM ERADICATION AWARENESS WEEK AUGUST 16TH TO 22ND 2022

Every year a Control Week awareness programme is organized from August 16 to 22 about Parthenium weed management and this year also farmers and students are being given information about eradication. In recent times this weed is a problem causing about 26-28 percent reduction in production of food crops. Parthenium plant is a destructive weed and has been declared a national weed. This weed usually grows throughout the year in all regions. It is known by many names like carrot weed, star weed, parthenium weed, white hat weed. This Parthenium herb mainly contains





a lactone called “parthene” which is harmful to humans and animals. Therefore, comprehensive management of Parthenium weed and its complete destruction is necessary according to

should be pulled out with a hand bag. Long-sleeved overalls should be worn during uprooting and only those not allergic to Parthenium weed should be assigned to weeding. Parthenium should be uprooted. When the weed is small, control is easy and costs are low. This will help protect our environment from destructive weeds like Parthenium. When weeds are found in agricultural field use herbicides as a pre-emergence recommended for the crop to control Parthenium weed along with other weeds. If spraying in a barren area, 41% SL of glyphosate is applied to the weed when it is green. 8 to 10 ml. of Glyphosate 71% powder or Paraquat 5 to 6 ml mixed per liter of water should be sprayed. In this program, the scientists of Agricultural Science Center, Dr. Shivamurthy D, Dr. Santosh H. M, Dr. Shantaveeraiah and Mr. Chandrakant Kotabagi participated in the programme. ■



PARTHENIUM ERADICATION AWARENESS PROGRAMME

Dr. Ashoka P, Senior scientist and head of the KVK. Parthenium Management Awareness Week started with the picking of Parthenium in the premises of Krishi Vigyan Kendra Farm.

Parthenium weed should be prevented from spreading from one place to another. Plucking the weed, when it is still young before flowering will reduce seed production and reduce the weed population. At the beginning of rain, weed

ICAR-KVK IDUKKI

BUSINESS, ENTREPRENEURSHIP AND START-UP SUPPORT THROUGH TECHNOLOGY IN HORTICULTURE (BESST- HORT) CAPACITY BUILDING PROGRAMMES AT KVK IDUKKI

Capacity building Programme on Scientific Goat Management



DISTRIBUTION OF INPUTS TO SC FARMERS



SESSION ON SCIENTIFIC GOAT MANGEMENT

A capacity building training Programme on Scientific Goat Management Under SCSP (2022-23) funded by Business, Entrepreneurship and Start-up support through Technology in Horticulture (BESST-HORT) under ICAR-IIHR Bengaluru was conducted at KVK Idukki for 50 SC farmers from Santhanpara and Chinnakanal Villages on 19th August 2022. Dr. Rohini M R, Scientist, IIHR, Banga-

lore inaugurated the function virtually and delivered inaugural address. She commented the importance of this programme and conveyed the good performance of farming communities message to all those who attended the event. Dr. S Jayababu, SMS (Animal husbandry), ICAR-KVK, Santhanpara created awareness of this Capacity Building programme on Profitable Dairy farming and Livestock management. Dr. R Marimuthu, Senior Scientist and Head, ICAR-KVK, Idukki, Dr. S Jayababu, SMS (Animal husbandry), ICAR-KVK,



Santhanpara and Dr. Muthalraj, Veterinary Surgeon, Veterinary Hospital, Santhanpara handled training session on Mixed fodder Cultivation, Scientific Feeding & Breeding Management in goats and Scientific Disease management respectively to the farming communities. Seeds and Organic inputs Sponsored by ICAR- IIHR, Bengaluru were distributed to the SC beneficiaries.

Capacity building programme on Integrated Crop Management in Cardamom

On the upcoming day on 20th August 2022, another one-day capacity building training programme on Integrated Crop Management in Small



INAUGURATION OF ICM IN SMALL CARDAMOM

Cardamom under SCSP (2022-23) was conducted at ICAR-KVK, Idukki for 50 SC farmers from Rajakkad and Muttukad Villages with support of Business, Entrepreneurship and Start-up support through Technology in Horticulture (BESST-HORT) under ICAR-IIHR Bengaluru. A brief introductory remark about the Institute and training programme was given by Dr. C. K. Narayana, CEO, BESST-HORT and Principal Scientist, Div. of PHT & AE, Dr. G. Senthikumar, Principal Scientist, Div. Of PHT & AE, Dr. Rohini M. R., Scientist, IIHR, Bengaluru respectively. The Inaugural session was followed by Technical sessions on Integrated Crop Management in Small Cardamom. Soil Testing and its importance were explained to the farmers by Dr. R. Marimuthu, Senior Scientist and Head, ICAR-KVK, Idukki. The Session on deficiencies of different nutrients and its recommendations in small cardamom was handled by Ms. Manju Jincy Varghese, Subject Matter Specialist (Soil science). Mr. Sudhakar. S., Subject Matter Specialist (Plant Protection) handled the session on Integrated Pest and Disease management in Small Cardamom. Ms. Ashiba A., Subject Matter Specialist (Agronomy) handled the session on Integrated Nutrient management in Small Cardamom. Seeds and Organic inputs Sponsored by ICAR- IIHR, Bengaluru were distributed to the SC beneficiaries.

PARTHENIUM AWARENESS CAMPAIGN AT ICAR-KVK, IDUKKI



Parthenium Awareness Rally

To apprise the farmers about the harmful effects of the Parthenium and its management, KVK, Idukki organized the “Parthenium Awareness Week” from 16th to 22nd August, 2022. Conducted a training-cum-awareness program to farmers regarding the harmful effect of Parthenium to human and animal life and the importance of eradication of Parthenium weeds from our ecosystem and different



PARTHENIUM ERADICATION

ways to eradicate the weeds from the farmers’ land. Parthenium weed removal program was also organized at KVK campus. All the staff members and workers participated in uprooting of Parthenium weeds from the campus premises. A rally with raising the slogans of Parthenium eradication was organized from the campus to Santhanpara Village. Awareness was also made using social media platforms like Youtube, facebook, WhatsApp etc.





ICAR-KVK KALABURGI-I

CELEBRATION OF 75TH AZADI KA AMRUT MAHOTSAV

rut Mahotsav from heart of the Kalaburagi city, Dr. B.R. Ambedkar circle to Sardar Vallabhabai Patel circle was organised with College of Agriculture, Zonal Agricultural Research Station KVK, Kalaburagi staff. On the occasion of 75th Azadi Ka Amrut Mahotsav, Horticulture seedlings viz., Mango, Papaya, Guava, Sapota, Jack fruit, Cashew nut, Caronda, Bael, Custard apple, Curry leaf and Marigold were distributed to the selected IFS beneficiaries and Diploma in Agriculture Extension Services for Input Dealers (DAESI) students. On 14.08.2022, Soil Health Cards were distributed to 200



FLAG HOISTING

ICAR-Krishi Vigyan Kendra, Kalaburagi-I organized 75th Azadi Ka Amrut Mahotsav various programmes held from 13.08.2022 to 15.08.2022 at KVK campus. As a part of the celebration, 3 days National Flag hoisting



PLANTING OF SEEDLINGS



DISTRIBUTION OF SEEDLINGS TO DAESI STUDENTS

farmers of different villages of Aland taluka and planting of 75 forest seedlings was done by staff at premises of KVK and ZARS, Kalaburagi. Finally, 75 Indian freedom fighters introductory book was released by Dr. B. M. Doddamani, Associate Director of Research, ZARS, Kalaburagi and Dr. Raju G. Teggelli, Senior Scientist & Head, ICAR-KVK, Kalaburagi-I. Scientists, staffs of KVK and ZARS, Kalaburagi and farmers were actively participated in the various programmes.

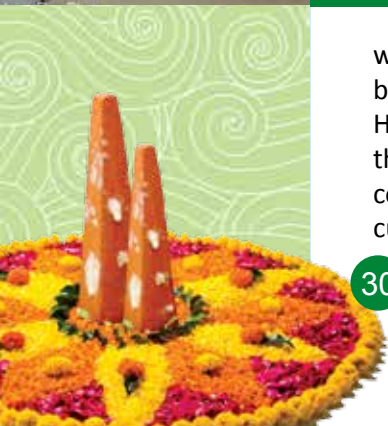
PARTHENIUM AWARENESS WEEK

As part of Parthenium Awareness Week (16th to 22nd August, 2022), ICAR-Krishi Vigyan Kendra, Kalaburagi organised an awareness programme on parthenium eradication at KVK premise on 18.08.2022. The programme was handled by Senior Scientist and Head who briefed about the importance of removal of parthenium weed and its effects on crops and animals. Scientists, staff of KVK-I and farmers actively



JATHA

was done. Presidential speech delivered by Dr. Raju G Teggelli, Senior Scientist & Head, ICAR-KVK, Kalaburagi-I highlighted the contribution of freedom fighters to the country and development of Indian Agriculture. Later, 6 Kms Jatha of Azadi Ka Am-





PARTHENIUM AWARENESS CAMPAIGN

participated in the programme. A total of 18 staff and farmers participated in the event.

CELEBRATION OF SADBHAVANA DAY

The celebration of Sadbhavana Day started with a oath taken by the Scientists and staff of ICAR-Krishi Vigyan Kendra, Kalaburagi on 18-08-2022. As a part of the celebration, Senior Scientist and Head, briefed about the importance of Sadbhavana day



CELEBRATION OF SADBHAVANA DAY

and responsibility of the employees. Scientists and staff of KVK were part of the programme.

IMPLEMENTATION OF FLD ON DEMONSTRATION OF MASTI GUARD FOR PREVENTION & CONTROL OF SUBCLINICAL MASTITIS IN CROSS BRED DAIRY COWS

On 24.08.2022, Dr. Manjunath Patil, Scientist (Animal Science), ICAR-KVK, Kalaburagi I implemented animal science front line demonstration of Masti Guard for prevention & control of subclinical mastitis in cross bred HF cows at Srichand village of Kamalapura taluka, Kalaburagi district. Subclinical mastitis is major challenging problem to both veterinary doctor and also to farmers since the clinical

symptoms of mastitis are not visible to our naked eye. This technology is from Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai. This is field test kit for quick estimation of somatic cell count (SCC) in milk samples to measure udder hygiene. The kit contents are microfuge tubes, substrate solution, dropper and enhancer solution. This test can estimate 1,00,000 to 9,00,000 somatic cells in the milk sample. Intensity of colour, indicates somatic cell count which in turn indicates udder hygiene. In conclusion, Low somatic cell count is indicative of better udder hygiene. The FLD was demonstrated on two cross bred HF cows. One HF cow's milk somatic cell count was 700 x (7,00,000 cells) indicated poor udder



FLD ON DEMONSTRATION OF MASTI GUARD

hygiene and sub clinical mastitis. Another HF cow's milk somatic cell count was 100 x (1,00,000 cells) indicated better udder hygiene. Also, critical inputs like Teat-Protect Lanolin solution sprays were given to farmers to prevent sub clinical mastitis. This solution was sprayed to four teats after milking. This forms an impregnable seal around the teats. Prior to milking, the gel can be washed off with water. A total of 30 farmers were benefitted.





ICAR-KVK KALABURGI-II

DIPLOMA IN AGRICULTURAL EXTENSION SERVICES FOR INPUT DEALERS (DAESI) CERTIFICATE DISTRIBUTION PROGRAM AT ICAR-KVK, KALABURGI-II

Distribution of DAESI certificate to input dealers for batch No-1, 2019 was held at ICAR-KVK, Raddewadgi. The event was jointly organized by MANAGE Hyderabad, SAMETHI (North) Karnataka, UAS, Dharwad, UAS, Raichur, KSDA, Kalaburgi and KVK, Kalaburgi-II on 29-08-2022 at ICAR-KVK, Kalaburgi-II.



DISTRIBUTION OF CERTIFICATES

In his presidential remarks Dr. S. A. Patil, highlighted the importance of extension service rendered by input dealers and Dr. M. Gopal, Nodal officer, Samethi (North), UAS, Dharwad gave an overview of Diploma in Agricultural Extension Services for input dealers program at national level.

Dr. Amaresh Y. S., Dr. Raghavendra B.T from Director of Extension office from UAS, Raichur and Dr. Uma, ADA, KSDA, Kalaburgi were the other guests present during the program. Dr. N. Manjunatha, Sr. Scientist & Head welcomed the gathering and highlighted the KVK programs and Dr. Basavaraj K, Scientist (Agril. Entomology) overviewed the DAESI course at KVK, Raddewadgi and Program ended with vote of thanks by Dr. Chethan T, Scientist (Horticulture). Sri. M. C. Patil, Technical officer (Farm Management) narrated the program, Sri. Sanjeev-kumar Patil, Technical officer (computer) operated inaugural and closing songs, Smt. Shruthi and other KVK Staff was also present. Out of 40 DAESI students 38 got certificate out of which one is Gold Medal, One Silver and One Bronze medal. The program was witnessed by about 100 members. ■



DAESI - INAUGURATION OF THE VALEDICTORY FUNCTION

The program was inaugurated by Jewargi taluka MLA Hon'ble Dr. Ajay Singh, and in his inaugural address he expressed that advising farmers on scientific crop production is essential to improve the production and economy of the farmers. In this regard, educating agri input dealers on scientific line and timely basics is essential. He congratulated them for successfully completing the course. This program was presided over by Dr. S. A. Patil, former IARI Director and former Vice Chancellor, UAS, Dharwad.

ICAR-KVK KANNUR

AWARENESS PROGRAMME ON SCIENTIFIC PROCESSING AND VALUE ADDITION OF FOREST RESOURCES

Krishi Vigyan Kendra Kannur in collaboration with Forest Department organized one day awareness cum training programme for member farmers of Van Dhan Vikas Kendra (VDVK) under Kannavam forest range. The programme was inaugurat-



INAUGURAL FUNCTION

ICAR KRISHI VIGYAN KENDRA, KOTTAYAM



ed by Sri. Akhil Narayanan, Range Forest Officer, Kannavam in a function presided over by Sri. S. Sajiv Kumar, Secretary, VDVK Kannur.

Preliminary discussion was on the availability of forest resources including garcinia, honey, mango ginger etc. and existing processing and marketing done by the members of VDVK who belongs to tribal community. In an interactive group discussion Smt. Elizabeth Joseph, Assistant Professor (Home



TRAINING PROGRAMME ON FOREST RESOURCES

Science) given an orientation on possibilities for processing and value addition of forest resources collected by farmers. Dr. Parvathy A., Assistant Professor (Agricultural Extension) explained about the potential of VDVK as a farmer's group in exploring



the value addition, branding and marketing of forest resources. Farmers expressed their willingness to work as a group to ensure income security by adopting new technologies in processing, value addition and marketing with the technical guidance of KVK and cooperation of Forest Department.

PARTHENIUM AWARENESS WEEK CELEBRATION

Krishi Vigyan Kendra, Kannur has organized two awareness programmes on Parthenium weed on

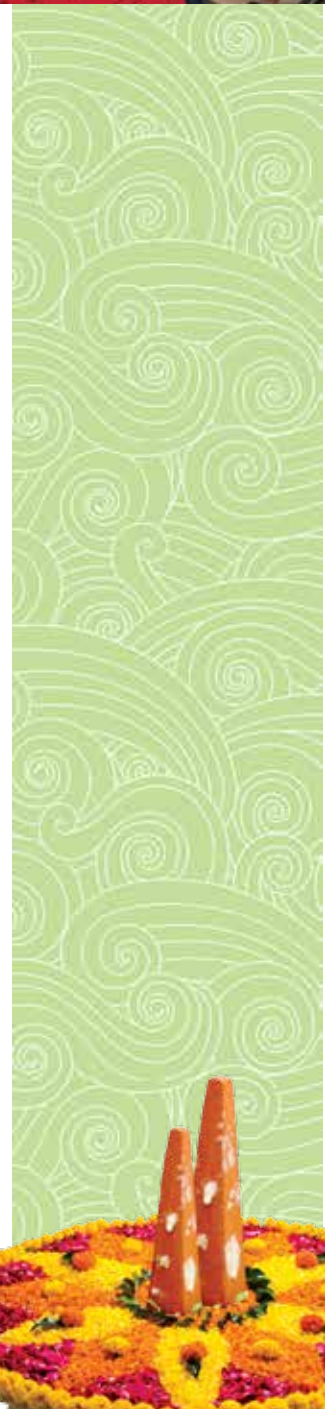
19th and 20th August 2022 as part of Parthenium Awareness Week (August 16-22), 2022.



On 19th August 2022, parthenium awareness programme was organized at Pariyaram Panchayat for farmers. Dr. Jayaraj P., Programme Coordinator, KVK Kannur handled a session on uses of weeds and lead an interactive discussion on importance of managing parthenium weed and health hazards caused by the weed. Thirty three farmers attended the awareness programme and interactive discussion.

On 20th August 2022 in the parthenium awareness programme organized at KVK Kannur, Smt. Anu V., Assistant Professor (Agronomy), handled a session on negative impact of Parthenium to environment, agricultural production and human health.

Smt. Shahnaz K. M. P., Farm Manager, KVK had explained the health hazards of parthenium weed, and management practices to avoid parthenium menace. An interactive discussion session on weeds and integrated management practices for controlling weeds was held with farmers and staff members of KVK. Thirty two farmers and staff of KVK have participated in the programme. ■





ICAR-KVK KASARGOD

JAL SHAKTHI ABHIYAN Harvesting natural spring water for drinking and agricultural purposes



WATER STORAGE TANK AND IRRIGATION

The Kasargod District usually faces severe drought during summer months. Because of the shortage of the water, tube well density in Kasargod district is very high. Hence collecting and conserving water during monsoon season and harvesting natural sources of water are very much essential for meeting the water requirements of households and for agricultural uses. The villagers in “Swarga” a village near Perla in Kasargod District have demonstrated how to effectively conserve, collect and use natural spring water. The village is located in the high hills adjoining a forest area. A natural spring originated from the hills are collected and diverted by putting up a col-

lection tank near to the mouth of a small water fall in the spring and transporting it through pipes to the households in the downstream area. Each household again are having water storage tanks of 10,000 Liters capacity. The stored water is used for household purpose as drinking water, for washing and cleaning of animals and cow sheds and for irrigation of crops.

The villagers are very keen in conserving the natural forest cover in the up hills without any pollution so that they can get pure drinking water. This will also make the water available upto the month of April, the mid summer season. Around 20 house-



HARVESTING OF NATURAL SPRING WATER

holds are benefitted by the natural spring water stream. The maintenance and distribution of the natural stream and available water by the villagers in “Swarga” is a replicable model.

ICAR-KVK KODAGU

TRAINING PROGRAMME ON LIVESTOCK MANAGEMENT & PETROLEUM AWARENESS PROGRAMME CONDUCTED AT KVK KODAGU FARM AT ATHUR

ICAR-KVK Gonikoppal, Kodagu organised one day training programme on livestock management and petroleum awareness programme for the benefit of 43 farmers from Virajpet along with NGO, SKDRDP on 25th August 2022 at KVK farm, Athur. During the programme, farmers were taught about Piggery, Goatery & Backyard poultry farming and its management.



TRAINING ON GOATERY MANAGEMENT

Later an awareness programme on petroleum usage was also conducted where the farmers were given a talk on conservation and management of petroleum in agricul-





TRAINING ON PIGGERY MANAGEMENT

ture machineries. Farmers actively participated in the programme. Dr. Suresh S.C, SMS (Livestock) coordinated the training programme. After the training programme, the farmers were taken around the KVK farm to show the latest technologies in agriculture & allied sector activities.

DIAGNOSTIC FIELD VISIT AT GINGER PLOT AT PONNAPASANTE VILLAGE

A diagnostic field visit was done in the ginger plot on 25th August 2022 at Ponnapasante village based on the request received from farmer. The field was infected with *Phyllosticta* leaf spot of gin-



PHYLLOSTICTA AFFECTED GINGER CROP

ger. Suitable integrated disease management strategy was suggested to the farmer. He was also taught practically on how to identify the disease in near

future. The farmers gave a positive feedback about the diagnostic field visit; it had helped him a lot in saving his crop from further damage.

TRAINING PROGRAMME ON SCIENTIFIC COFFEE CULTIVATION AT AIGOOR VILLAGE



TRAINING ON COFFEE CULTIVATION

ICAR-KVK Gonikoppal, Kodagu conducted a training programme on scientific coffee cultivation at Aigoor village on 24th August 2022. Fifty farmers attended the training program. Shri. Devaiah SMS (Horticulture) delivered a lecture on modern scientific practices to be taken up in coffee during post monsoon season, followed by Shri. Harish M N, SMS (Agrometeorology) gave a glimpse about working mandates of KVK and also about weather advisories which is being issued by KVK on regular basis. The farmers gained a bountiful of knowledge and requested to conduct the similar kind of programmes. ■

ICAR-KVK KOLAR

Parthenium Awareness week

S.No.	Date	Place	Participants
1	18.8.2022	Ternahalli village	20
2	19.8.2022	Muthanuru village	15
3	20.8.2022	Girnahalli village	25
4	22.8.2022	Hosahalli village	22





PARATHENIUM AWARENESS PROGRAMME



PARATHENIUM AWARENESS PROGRAMME

FLD follow up visits by KVK, Kolar Scientists

S.No	Date	Scientists	Place	Crop
1.	18.8.2022	Dr. Jyothi Kattegoudar, Scientist (Horticulture) Dr. Anil kumar, Scientist (SS&AC) Dr. Shashidhar K.R., Scientist (Sericulture) Dr. Chikkanna G.S., Scientist (Home science)	Thernahalli village	Follow up visit to FLD mango fields & FLD Ragi KMR 316 and GPU 66
2.	18.8.2022	Dr. Anil kumar, scientist (SS&AC) Dr. Jyothi Kattegoudar, Scientist (Horticulture)	Ternahalli village	Visit to Brinjal field
3.	19.8.2022	Dr. Shashidhar K.R. Scientist (Sericulture), Dr. Sadananda K. Mushrif, Scientist (Plant Protection) Dr. Anil kumar, Scientist (SS&AC)	Muthanuru village	Initiated OFT on Management practices of thrips and mites in mulberry. Follow up visit to INM in mulberry for higher yield Follow up visit to groundnut FLD fields Follow up visit to FLD Ragi GPU 66 fields
4.	20.8.2022	Dr. Shashidhar K.R. Scientist(Sericulture)	Gaddekannuru village	Follow up visit to OFT on Assessment of different liquid consortia on mulberry
5.	20.8.2022	Dr. Anil kumar, scientist (SS&AC)	Girnahalli village	Follow up visit to Ragi KMR 316 and GPU 66
6.	22.8.2022	Dr. Sadananda K. Mushrif, Scientist (Plant Protection) Dr. Anil kumar, scientist (SS&AC)	Hosahalli Village	Follow up visit to Ragi KMR 316 and GPU 66
7.	25.8.2022	Dr. Sadananda K. Mushrif, Scientist (Plant Protection)	Mittakallahalli village	Visit to Farm trial on Chrysanthemum blight disease



Capacity Development programme on opportunities in processing of Horticultural crops



CAPACITY DEVELOPMENT PROGRAMME

Dr. Chikkanna G.S, Scientist (Home Science), KVK, Kolar organized Off Campus Capacity development programme on Opportunities in processing of Horticultural crops and also gave information on PMFME (ODOP) scheme at Mulabagal on 26.8.2022. Around 18 SHG members were benefited from the programme.

Capacity development programme on scientific cultivation of sandalwood



CAPACITY BUILDING PROGRAMME

Dr. Jyothi Kattagoudar, Scientist (Horticulture) KVK Kolar has organized an on campus capacity development programme on the scientific cultivation of sandalwood programme in association with the Institute of Wood Science and Technology, Bengaluru on 29.8.2022. Scientists from IWST Dr. N. Ravi. Dr. Dorai and Dr V.N. Divakar delivered lecture on nursery management of sandalwood, scientific sandalwood crop production and heartwood production and marketing aspects of sandalwood respectively. A total of fifty farmers from Kolar and Chikkaballapura district have participated in the programme.

Capacity building programme on BESST HORT Animal husbandry - SCSP programme

Dr. Anil Kumar, Scientist (SS&AC) organized On campus capacity building programme on proper management practices in Animal husbandry with special emphasize on dairy on 30.8.2022. Dr. K. M. Indires, Honorable Vice chancellor, UHS Bagalkot.

Dr. Debi Sharma, Director, IIHR, Bengaluru & Dr. C.K. Narayan, CEO, BESST HORT, Bengaluru were the chief guest of the program & participated through online. Dr. Vishwanatha S, Chief Veterinary Doctor, Srinivaspur participated as a resource person and gave information on sheep & goat rearing. Dr. Nithyananda, Senior Veterinary Doctor, Madderi gave information on scientific dairy farming of qual-



BESST HORT- SCSP PROGRAMME

ity milk production. A total of 60 farmers had participated in the programme.

Orientation programme to Canara Bank Probationary Officers

K. Thulasiram, Senior Scientist & Head, KVK, Kolar organized orientation programme to Canara Bank Probationary Officers of Pan India nature regarding KVKs objectives, mode of working and



ORIENTATION PROGRAMME FOR BANK POs

brief achievements of KVK Kolar in collaboration with RSETI, Canara Bank, Kolar at KVK on 18.8.2022 & 24.8.2022 respectively. 83 Officers have participated in the programme.





ICAR-KVK KOLLAM

VISIT OF HON'BLE UNION MINISTER ON 21.08.2022 AT KVK, KOLLAM

The Hon'ble Union Minister of State for Chemicals and Fertilizers, New and Renewable Energy, Shri. Bhagwanth Khuba visited and reviewed the activities of Krishi Vigyan Kendra Kollam on 21-8-2022. The Hon'ble Minister had a small discussion on Coffee table book prepared by KVK Kollam at the chamber of Professor and Head.



RELEASE OF KVK TIMES

during the function, including the release of KVK Times and launch of Bouquet from ornamental Banana and invited Hon'ble Minister for his special keynote address.

In his special address Hon'ble Minister mentioned the tremendous growth of the agriculture sector in our country. He stressed the role of ICAR institutes, SAUs, and KVKs in the growth of the agricultural sector and the welfare of farmers. He suggested that KVKs should be strengthened as 'Innovation Centres' for the betterment of the farming community. Every Research programme by way of student work and research projects of the institutes should aim for the benefit of the farmers and be able to commercialize the technologies. KVKs should present these outcomes as a business model to farmers.

The Hon'ble Minister mentioned the importance of spices like pepper and ginger by pointing out the decline in area and production in Kerala. Since these crops are having high export potential, more focus should be given to area expansion through technological interventions by KVKs utilizing the Central and State sector schemes for tackling the current scarcity of these spices which can contribute to Atmanirbhar Bharath. Official release of KVK Times Volume 1 Issue 26 (July 16-31) 2022 compiled and edited by KVK Kollam- an initiative of ICAR ATARI Bengaluru for facilitating the dissemination of valuable wealth of knowledge from the 48 KVKs of Kerala, Karnataka and Lakshadweep was done by Hon'ble Minister. The prestigious outcome of one of our OFTs- Ornamental banana cut flower bouquet—a new scope for floriculture was also launched.

Dr. Bini Sam, Professor and Head KVK Kollam briefed the activities of KVK Kollam. Refreshment for the function was arranged with farm fresh Traditional Puzhukku from KVK's esteemed innovative programme Establishment of Tuber Hub funded by



HON. MINISTER ON DAIS

The scheduled programme was started by 12 pm at the seminar hall of KVK Kollam with KAU invocation song. Dr. Jayasree Krishnankutty M, Director of Extension, KAU welcomed the Hon'ble Minister, audience including farmers, FPO representatives, Additional Director (i/c), Department of Agriculture and Farmers



ORNAMENTAL BANANA BOUQUET LAUNCH

welfare, Deputy Directors from Department of Agriculture, scientists, staff of KVK and FSRS. In her welcome speech she briefed the programmes to be conducted



ICAR to support the ODOP programme. Traditional Puzhukku from Tapioca (Sree Pavitra), Elephant foot yam (Gajendra), Yam (Anthamon Kachil) and Taro (Sree Kiran) from the fields of Tuber Hub beneficiaries. An interactive session for the farmers and rep-

resentatives of FPOs was also arranged with the Hon'ble Minister.

With KVKs signature, a token of love was gifted from KVK Kollam – Nettipattam (a handmade work of Shri. Suresh, Labourer FSRS) and a Pencil caricature (Shri. Vishnu, Casual Labourer KVK Kollam). The function was concluded at 1.10 pm with the vote of thanks by Dr. Lekha M, Assistant Professor (Plant Protection) KVK Kollam. ■



TOKEN OF LOVE, PENCIL SKETCH TO Hon. MINISTER

ICAR-KVK KOPPAL

CELEBRATION OF PARTHENIUM AWARENESS WEEK BY ICAR KVK GANGAVATHI



AWARENESS WEEK

Parthenium hysterophorus L. (Asteraceae), native to North and South America and the West Indies, is a weed that causes severe health issues, such as dermatitis, asthma and bronchitis among humans and livestock and agricultural losses, posing a threat to biodiversity and crop yield losses. To sensitise the public, farmers, school and college students on the harmful effects of parthenium, ICAR KVK Gangavathi organised Parthenium Awareness Week between August 16 to 22. This programme was done in COA, Gangavathi by cleaning the campus and college premises. Programme was also extended to chikkajantakal and agoli villages.

TRAINING PROGRAMME ON SCIENTIFIC BEE KEEPING

University of Agricultural sciences, raichur, ICAR KVK gangavathi and Horticulture department, Kalburgi conducted three days training programme for horticulture officers of Kalburgi district on Scientific bee keeping from 18.08.2022 to 20.08.2022 in KVK gangavathi. Dr Bhadari prasad Assistant Professor (Entomology) explained in detail about the

different types of bee and their rearing practices. Dr. Ragendra Yaligar Senior Scientist and Head explained about the medicinal properties and health benefits of the honey. Trainers also learned hands on training on rearing and different practices of bee rearing. Visit was also arranged to succes-



BEE KEEPING

sive bee rearing units of ginegera, basapatna and dadegal. About 26 horticulture officers were present in the training programme.

ONLINE TRAINING PROGRAMME ON ORGANIC MORINGA CULTIVATION AND ITS VALUE ADDITION

ICAR KVK Gangavathi in association with DATCKampli organised online training programme on organic moringa cultivation and its value addition on 25.08.2022. Smt. Vidyavathi ADA, DATC, Kampli inaugurated programme and explained about the need of the





organic cultivation. Dr. Jyothi R. Scientist (Horticulture) narrated different varieties of moringa and its cultivation practices. Dr. Kavitha Y. Ullikashi Scientist (Home Science) explained about the nutritional importance of moringa leaves and other parts of the plant and its role in eliminating the anemia. Kum. Veena Organic agriculturist expert N.O.F.H., private limited, Tavargera explained in-detail about cultivation of organ-



TRAINING ON OYSTER MUSHROOM CULTIVATION

about the cultivation practices of the oyster mushroom. Dr. Kavitha Y. Ullikashi Scientist (Home Science) explained about the nutritional importance of mushroom and its value addition. Smt. Neelamma M. Progressive farm women chikkabenekel shared her experiences in mushroom cultivation. Dr. Kavitha Y. Ullikashi Scientist (Home Science) and Dr. Jyothi Scientist (Horticulture) conducted hands on demonstration of oyster mushroom bagging. More than 50 farmers and farm women participated in the training programme.



TRAINING ON ORGANIC MORINGA CULTIVATION

ic moringa and its value addition. About 45 farmers and farm women participated in the training programme.

TRAINING PROGRAMME ON OYSTER MUSHROOM CULTIVATION AND VALUE ADDITION

Mushroom cultivation is playing a vital role in helping rural community make stronger their livelihoods. It is well-organized income for change of agricultural wastes like hay, paddy straw etc. into precious protein and making added profits as well as reduce unemployment. ICAR-KVK Ganagavthi organised on campus training on oyster mushroom cultivation and its value addition on 23.08.2022. Programme was inaugurated by the Dr. Ragvendra Yaligar Senior Scientist and Head by lighting the lamp and he explained about importance of small scale agriculture based income generating activities for the youth. Dr. Jyothi Scientist (Horticulture) narrated

TRAINING PROGRAMME ON EFFICIENT UTILISATION PETROLEUM AND NATURAL GAS IN DOMESTIC AND AGRICULTURE



PETROLEUM CONSERVATION AWARENESS PROGRAMME

ICAR-KVK gangavathi in association with Petroleum Conservation Research Association (PCRA), Ministry of Petroleum & Natural Gas, Government of India conducted training programme on efficient utilisation of petroleum and natural gas in domestic and agriculture on 30.08.2022 in Hosalli Village. Dr. Ragvendra Yaligar Senior Scientist and Head by lighting the lamp and he explained about proper utilisation petroleum and natural gas in agriculture. Further, he also explained about the utilisation and conservation of LPG while cooking and other household activities. Sri Narappa Farm manager explained about utilisation and conservation of petroleum in tractor and pumpsets. ■



ICAR-KVK KOTTAYAM

DEMONSTRATION OF DRONE TECHNOLOGY IN RICE



SPRAYING OF KAU SAMPOORNA IN RICE

KVK Kottayam conducted a demonstration programme on Kisan drones for spraying micronutrient spray (KAU micronutrient mix-Sampoorna) on rice, as part of the ICAR funded NICRA project on 18th August 2022. The spraying was held in Thekkepallipadam padasekaram (cluster of rice fields) in Kumarakom village. The demonstration was carried out in an area of 68 acres of rice field. The programme could successfully demonstrate the use of drones for spraying in large area within short time with great accuracy and higher efficiency compared to manual spraying. The demonstration was an eye opener and was well taken by all the members of the padasekharam and the farmers from nearby villages.

CAPACITY BUILDING PROGRAMME FOR RURAL YOUTH IN COCONUT CLIMBING



TRAINING IN COCONUT CLIMBING

KVK Kottayam conducted a six days training for the unemployed rural youth from different parts of the Kottayam district in the last of week of August 2022. Training included 12 practical sessions on coconut climbing using coco-

nut climbing machine. All the twenty participants were imparted with coconut climbing skills during the period. Trainees included nine men and eleven women from various parts of Kottayam. Training was sponsored by Department of Agriculture, Govt. of Kerala. Apart from detailed sessions on coconut climbing, there were theory sessions on agro-techniques of coconut and also on thrift management and savings management by banking officials. Participants were also trained on health management in coconut viz., integrated pest and disease management and integrated nutrient management.

DEMONSTRATION OF PROPPING IN BANANA USING PLASTIC ROPE (KERAVALLY)



BANANA PROPPING USING "KERAVALLY"

Propping in banana is an essential cultural practice to tide over the heavy wind especially during the monsoons. The traditional propping method involves the use of wooden poles and tying every plant to individual poles. This method is more expensive as it involves cost of poles and more number of labour.

Instead of using wooden poles, KVK Kottayam demonstrated the use of plastic rope popularly called as Keravally in Kerala. Five wind prone areas were selected for the demonstration. Use of Keravally brings down the cost of propping to 20 rupees per plant in place of 100 to 120 rupees per plant while using wooden poles. Farmers of





the region were unaware of this technology. Successful demonstration of the method will facilitate the adoption of this cost effective practice by more number of farmers.

Giant African snail eradication campaign in Kottayam district



INAUGURATION OF DISTRICT LEVEL CAMPAIGN ON ERADICATION OF AFRICAN SNAIL BY DR. PK JAYASREE, DISTRICT COLLECTOR

As a part of 'One Health programme', the District Administration, Kottayam with the technical support of KVK Kottayam organized a week long campaign for the eradication of giant African snail, an invasive species which was proliferating throughout the district. It is reported to attack over 300 crop plants and to cause meningitis in humans. KVK, Kottayam hosted the inaugural function of eradication programme 'Lesson One - Snail' held on 25/8/2022 during which different types of baits were demonstrated to stakeholders of the campaign. The programme aimed at baiting and killing snails was implemented from 25th to 31st August 2022 throughout the district with the support of Departments of Agriculture, Health, Local Self Government, Animal Welfare, Forest and Kudumbashree.

FARMERS' DAY CELEBRATION

Farmers' day was celebrated on 17th August 2022 throughout the state of Kerala and all the technical staff from KVK Kottayam attended the function held in their respective Block level Agriculture Knowledge Centres (AKC) in Kottayam and Alappuzha districts. On this occasion, lead farmers were felicitated and as part of 'Subhiksha Keralam' a flagship programme of



UZHAVOOR AKC



PAMPADY AKC



ERATTUPETTA AKC

Government of Kerala, bio inputs and coconut seedlings were distributed to selected farmers.

PETROLEUM CONSERVATION AWARENESS PROGRAMME



PETROLEUM CONSERVATION AWARENESS CAMPAIGN

Agricultural workshop in relation to PCRA on conservation of energy and fuel efficiency in agricultural implements was conducted by KVK Kottayam on 17/08/2022. Around 35 farmers from nearby villages actively participated in the programme. Relevant literature on maintenance of farm machinery was distributed to the participants. Farm machineries in the custom hiring centre of KVK was exhibited during the programme. ■



ICAR-KVK KOZHIKODE



FARMERS FROM TELANGANA



FARMERS FROM TAMIL NADU

OTHER STATE FARMERS VISIT AND TRAINING ON SPICES

Farmers from Sangareddy district of Telangana visited KVK and trained on protray ginger seedling production and its cultivation. The programme was organized by IISR and sponsored by NABARD. Similarly farmers from Coimbatore district, Tamil Nadu visited KVK and exposed to its activities. They were

educated about the suitability of bush pepper cultivation in their district by Dr. P Ratha Krishnan, Programme Coordinator, KVK. As an outcome they procured bush pepper and protray raised ginger seedlings from KVK for their immediate introduction in their district. ■

ICAR-KVK MALAPPURAM

'CHINGAM ONNU' FARMERS DAY CELEBRATION

The Kerala state farmers day was celebrated at ICAR-KVK Malappuram, on August 17 (Chingam1, first day of Malayalam calendar), where a NGO,

Cultural world foundation, Ever-green Ponnani also collaborated. The NGO more focused on charity activities have pledged to take its footstep to agriculture from this year. Chingam onnu marked the starting of their programme for which KVK supplied seeds, planting material and other agricultural inputs. An agricultural activity calendar formulated with the contribution of KVK Scientists also was released and distributed to the members of organization for the organized activity of the group.

The programme was inaugurated by Ponnani block president, Sri. Sriramakrishnan in the event presided over by Dr. Ibraheemkutty C, Programme coordinator, KVK Malappuram. Dr. Abdul Jabbar P.K. handled a session on agricultural awareness and the child farmer who involved in cultivation of exotic fruits and marketing through so-





cial media was honoured in the event.

DRIVE FOR POPULARISATION OF REGION SPECIFIC MINERAL MIXTURE

Mineral imbalance is one of the major reasons for sub optimal performance of cross bred dairy cattle in the state. To address issue, KVK Malappuram has taken up a field level demonstration of area specific miner-



al mixture Ksheeramin, produced by Kerala Veterinary and Animal Sciences University. The product has been formulated based on mineral balance of different localities assessed from field level investigation to identify the mineral composition of the soil and vegetations from respective localities. The programme has been envisaged to compare the performance of dairy cows receiving recommended levels of Ksheeramin with that of conventional mineral supplements given to cows having almost similar physiological state. The programme was started in farms including household units and medium sized farms.

SENSITIZATION ON AGRICULTURAL TECHNOLOGY TO SCHOOL AND COLLEGE STUDENTS

To aware and familiarize new agricultural technologies to the interested



school and college students who involved in agriculture activities in their campuses, different sessions were handled at KVK Malappuram. The students from three schools and a college visited KVK campus and familiarized with composting technologies, production process of biocontrol agents, seedling production, propagation methods etc.

CAPACITY DEVELOPMENT PROGRAMME TO VOLUNTEERS OF SANTHWANAM PAIN AND PALLIATIVE CARE



The volunteers of organization named santhwanam who are actively involved in pain and palliative care activities have extended their interest to agriculture. An on campus capacity development programme conducted at KVK Malappuram to these volunteers on 27.08.2022 on innovative agricultural technologies, vegetable cultivation and IPM in vegetables. Mr. Abdul Jabbar P.K., Dr. Prasanth K. and Dr. Najitha Umer handled the sessions. ■



ICAR-KVK MANDYA



FIELD DAY

A field day on “Integrated approach for yellow mosaic management” in yard long bean was organized by ICAR-Krishi Vigyan Kendra at Agatahalli village on 30.08.2022.

Dr. Pavithra S., Scientist Plant Protection briefed about integrated pest and dis-

ease management in yard long bean and also highlighted the importance of management of yellow mosaic disease in the crop. Dr. Naresh N.T, Senior Scientist and Head, urged about soil health management practices. Farmers shared their experience about the technology demonstrated. 32 farmers have participated and benefitted. ■

ICAR-KVK MYSURU

IN SERVICE TRAINING TO ANGANAWADI WORKERS

On 17th August 2022, ICAR JSS KVK, Suttur organizing in service training to Anganawadi workers of Nanjangud taluk regarding “Balanced diet for all age groups and development of weaning foods for infants” at ICAR JSS Krishi Vigyan Kendra, Suttur. Mrs. Divya H.V., Senior Scientist and Head (I/c), ICAR JSS KVK Suttur inaugurated the programme and explained about KVK activities and demonstration units. Mrs Netravathi Yattinamani, Scientist (Home Science), ICAR JSS KVK Suttur spoke on the importance of balanced diet for all the age groups, importance and development of weaning foods for



INSERVICE TRAINING

infants. After the programme Anganawadi workers visited KVK demonstration units.

BEST ENTREPRENEUR AWARD FROM NRCB

ICAR JSS KVK Suttur entrepreneur Mr. Naveen Kumar H.M., from Ratnapuri village of Mysuru district received Best Entrepreneur award from National Research Centre for Banana (NRCB) Tiruchirapalli, Tamil Nadu on 20th August 2022, for his outstanding achievements made in the value addition of Banana. Under PMFME scheme, Mr. Naveen is second beneficiary to the country and established Banana value added products processing unit at Ratnapuri. He is practicing organic farming and created fruit forest with 40 different fruits, banana being the major crop and grown 5 different varieties. Mr. Naveen is recipient of Vijaya karnataka Superstar raitha award now working as resource person for ODO Banana to spread awareness and



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supporting banana value added products.

RURAL AWARENESS WORK EXPERIENCE PROGRAMME

From 22nd August to 3rd September 2022, students from college of Horticulture, Mudigere and from 26th August to 24th Oc-



RURAL AWARENESS WORK EXPERIENCE PROGRAMME

tober 2022, students from Noida International University, Noida have Rural awareness work experience programme at ICAR JSS KVK Suttur. During the programme, the students will have practical knowledge about the agriculture and allied activities, agri clinic, KVK demo units, interaction with farmers.

NEW VARIETIES OF TOMATO FOR INCREASING THE INCOME OF THE FARMERS

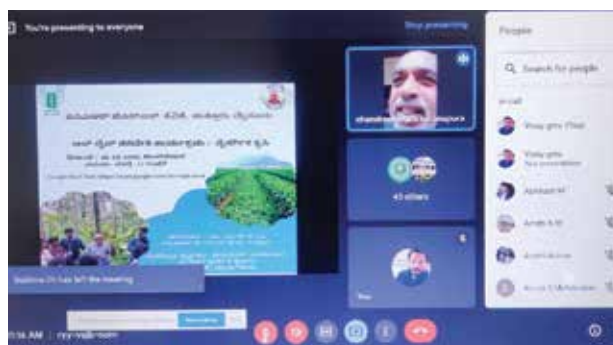
Off campus training programme on new varieties of Tomato in increasing the income of the farmers at Harathale village Nanjungud Taluk on 16-08-2022. In that training programme Horticulture Scientist Dr Vinay G M explains the scientific cultivation of Tomato, use of AMC in increasing the soil health management of soil, use of Vegetable special in improvising the yield along with quality in the Tomato and gave information about the New Tomato Varieties and soil scientist Rajanna J G explains the nutrient management and fertigation technolo-



gies in Tomato. Finally distributed the Arka abhed variety seedlings along with Vegetable special to 10 beneficiaries of the village. In this training programme 30 farmers of the villagers participated and got benefitted.

ONLINE TRAINING PROGRAMME ON NATURAL FARMING

ICAR JSS KVK Suttur, Mysuru organised Natural farming training programme in online mode on 23-08-2022. In this programme Horticulture scientist Dr Vinay G M give the introduction about the different types of the farmings and the importance of



natural farming in these days to help in the increase the soil health and to maintain the environment safe, then the Resource person of the programme Chandrashekar Naranapura, Krishi nivasa, Mugthihalli, Chikkamagaluru explained the details in Natural farming i.e. History of farming and natural farming, principals of Natural farming (Beejamrutha, Jeevamrutha, Mulching and Waphasa) and neatly explained the preparation procedures of Beejamrutha, Jeevamrutha and other materials of natural farming, and shared his experience in natural farming for the past 15 years. Finally Dr Vinay G M and Chandrashekar both cleared the doubts of the participants. A total of 55 farmers from different districts participated and appreciated the programme.

PARTHENIUM ERADICATION WEEK CELEBRATION 16TH -22ND AUGUST 2022

ICAR JSS Krishi Vigyan Kendra Suttur Mysuru has celebrated Parthenium eradication week 16th -22nd August 2022 at KVK campus involving staff, farmers,



RAWE students, and Anganawadi workers. KVK scientist Shri Shamaraj has briefed to farmers about health hazards of parthenium to humans and animals when they come in contact with parthenium and also explained about effective management of parthenium weed including composting of parthenium weed before its seeding. All KVK staff, farmers, RAWE students and Anganawadi workers has par-



PARTHENIUM UPROOTING CAMPAIGN AT KVK CAMPUS

ticipated in parthenium uprooting campaign at KVK campus.

FIELD DEMONSTRATION OF DIRECT SOWN RICE METHOD USING POWER OPERATED HAND TILLER

Field demonstration of Direct Sown Rice method using power operated tiller has been organized by SPRED NGO in collaboration with Kamal Kisan Company and ICAR JSS Krishi Vigyan Kendra Sut-

tur Mysuru. KVK scientist Shri Shamaraj has participated in field demonstration of Direct Sown



FIELD DEMONSTRATION OF DIRECT SOWN RICE

Rice method using power operated hand tiller at paddy fields of Athalli village T Narasipura taluk Mysuru. Demonstrated hand operated power tiller for direct seeding of paddy seeds, puddling using puddler, weeding and spraying of pesticides with power tiller attachment, multipurpose use of hand operated power tiller caught eyes of farmers, though there is fine refinement with machine, nearly 55 farmers were participated in field demonstration program. ■

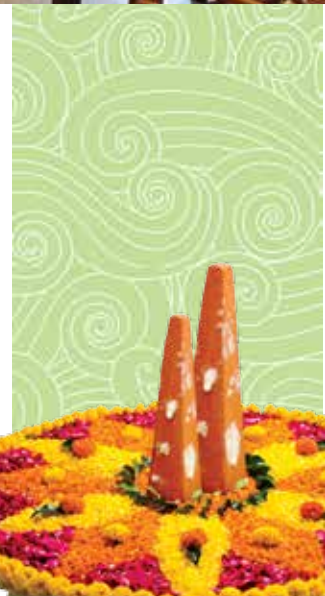
ICAR-KVK PALAKKAD

CAPACITY BUILDING PROGRAMME ON SOLAR ENERGY CONSERVATION

ICAR Krishi Vigyan Kendra, Palakkad has organized PCRA training programme on “Solar Energy for Energy Conservation and Pollution free Environment” on 31/08/2022. The programme stressed on the importance of using solar power for energy



conservation. The programme was coordinated by Dr. E.B. Gilsha Bai, Asst. Professor, (Soil and water conservation Engg.), KVK, Palakkad and the session was handled by Dr. Suma Nair, Asst. Professor (Farm Power and Machinery Engg.), Agriculture Research Station, Mannuthy. Total twenty five farmers attended and got benefited by the training.





ICAR-KVK PATHANAMTHITTA

CELEBRATION OF 75TH YEAR OF INDEPENDENCE



INDEPENDENCE DAY CELEBRATION

KVK, Pathanamthitta celebrated “Har Ghar Tiranga” campaign as part of Azadi Ka Amrit Mahotsav to mark the 75th Year of India’s Independence from 13th -15th August 2022. The celebration on 15th August initiated with the hoisting of the National flag by Rev. Moncy Varughese, Director, CARD followed by the National Anthem. On the occasion “Azadi Ka Amrut Sandhesh Yathra” by KVK Staffs and special children of MCRD Navajyothi School was also organised. The Rally was flagged off by Dr. C. P. Robert, Senior Scientist and Head, ICAR-KVK, Pathanamthitta. KVK head also delivered the Independence



FLAGGING OFF OF AZADI KA AMRUT SANDHESH YATHRA

Day speech. In his speech, he highlighted the importance of agriculture in our nation’s development and also paid tribute to the leaders of the Indian Independence movement. Release of Tri-Colour Balloons, Patriotic

songs by KVK Staffs and special children of Nava-jyothi School were the highlights of the day. KVK also scheduled “Let’s sing National Anthem” programme at KVK from 1st-15th August 2022.

“KARSHAKADINAM” CELEBRATION

To mark the occasion of Chingam 1, the first month of the Malayalam calendar and the beginning of Malayalam New Year, KVK organised Karshakadinam on 17th August 2022 at Kadamanitta in collaboration with Development De-



KARSHAKA DINAM CELEBRATION

partment, Mar Thoma church. The programme was presided over by Rev. Moncy Varughese, Director, CARD. Dr. C. P. Robert, Senior Scientist and head, KVK, Pathanamthitta delivered the Keynote address. On the occasion four farmers namely Sri. Somarajan K. T., Sri. O. M. Mathai, Sri. T. N. Viswanathan, Sri. T. N. Mathai were



TRAINING SESSION (KARSHAKA DINAM)

honoured for their contribution towards agriculture development. Sri. Philip Anchany, Member, Naranganam Grama Panchayat distributed vegetable seeds to the participants. On the occasion training on the topic “Homestead vegetable cultivation and different Govt. schemes in agriculture” and exhibition on Technological products of KVK were also conducted. A total of 60 farmers participated in the programme. ■



ICAR-KVK RAMANAGARA

DISTRICT LEVEL AWARENESS WORKSHOP ON PRADHANMANTRI FORMALISATION OF MICRO FOOD PROCESSING ENTERPRISES SCHEME



DR. LATA, R. KULKARNI ADDRESSING GATHERING

ICAR-KVK Ramanagara in collaboration with Department of Agriculture, Ramanagara and KAPPEC, Bangalore organised one day District level Awareness Workshop on PMFME at KVK, Magadi on 18.08.2022. Dr. B. Krishnamurthy, Assistant Director of Extension, UAS Bengaluru, Shri. Somsundar, Joint Director of Agriculture, Shri. Munegowda, Deputy Director of Horticulture, Shri. Umesh, Deputy Director of Agriculture, Shri. Anjenappa, Joint Director of Veterinary addressed the gathering and graced the occasion. Technical sessions were conducted on introduction to PMFME by Smt. Chaithra, KAPPEC, Bangalore, Opportunities for micro food processing by Dr. Lata R. Kulkarni, Senior Scientist and Head,

Krishi Vigyan Kendra, Ramanagara. Branding and marketing by Mr. Abhishek, District Resource person, PMFME, Ramanagara & regarding Bank facilities to entrepreneur by Mr. Madhukar, Canara Bank, Magadi. The PMFME beneficiaries Smt. Prasheela shared her experiences about Value Added products of White Ragi, Smt.



INAGURATION

Rekha, Basaveshwara oil mill about virgin coconut oil, Shri. Lakshmi-kanth about Virgin Coconut oil and desiccated coconut powder. An Exhibition was also organised during the event. More than 120 farmers and farm women of Ramanagara district were benefitted.

ICAR-KVK SHIVAMOGGA

FIELD VISITS UNDER FLD PROGRAMME ON ICM IN GINGER AND IDPM IN PADDY

ICAR - Krishi Vigyan Kendra, Shivamogga organised field visit to Halugudde and Nagarahalli villages of Hosanagara taluk on 23/08/2022 under FLD programme on integrated crop management (ICM) in ginger and integrated disease and pest management (IDPM) in paddy. During the visit to Halugudde, Dr. Hanumanthaswamy, B. C., Senior Scientist and Head, KVK Shivamogga, Miss. Smitha, G. B., Scientist (Horticulture), KVK Shivamogga and Dr. Arunkumar, P., Scientist (Agri. Extension) KVK, Shivamogga interacted with the farmers and explained about the importance and role of bio-agents (Trichoderma





and *Pseudomonas* spp.) in managing the ginger rhizome rot very effectively and enhancing the yield of ginger. They also mentioned the advantages of using bio-fertilizers for improving soil fertility, soil microbial population and enhancing the nutrient availability and uptake. Meanwhile, during the visit



FIELD VISITS UNDER FLD PROGRAMME ON ICM IN GINGER AND IDPM IN PADDY

to Nagarahalli, the scientists explained in detail about integrated pest and disease management in paddy especially on management of stem borer and blast. The farmers also interacted with the scientists related to the problems faced by them on cultivation aspects of ginger and paddy. Totally 26 farmers were benefitted from this FLD programme field visits.

CELEBRATION OF PARTHENIUM AWARENESS WEEK

KVK, Shivamogga celebrated Parthenium Awareness Week from 16 to 22 August 2022. In this connection, a mass Parthenium weed removal programme was organized. All faculty, technical & supporting staff, B.Sc., Students, Contractual workers are participated in removal of Parthenium weeds at the KVK premises.

During the programme, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamog-



ga has explained that, observation of Parthenium Awareness Week is to make farmers and general public aware about the menace of Parthenium, which is responsible for causing health problems in human beings and animals, besides deteriorating environment, loss of productivity and biodiversity.



CELEBRATION OF PARTHENIUM AWARENESS WEEK

Further, he explained why parthenium is a dangerous weed. In general, parthenium is a poisonous, pernicious, problematic, allergic and aggressive weed posing a serious threat to human beings and livestock. In India and Australia, this weed has been considered as one of the major source of dermatitis, asthma, nasal-dermal and nasal-bronchial types of diseases. Besides ill effects, it also causes several other problems like blockage of common pathways and reduces the aesthetic values of parks, gardens and residential colonies. Also he explained the different methods of control particularly biological control by Mexican beetle in India and how it kills the parthenium.

A total of 80 participants were benefitted from the programme. ■



ICAR-KVK THRISSUR



“SKILL UPGRADATION PROGRAMME OF MASTER FARMERS”

“Rural Innovation -Promotion of Integrated Farming through skill upgradation of master farmers” is a project funded by NABARD. Krishi Vigyan Kendra Thrissur provides technical support to 20 master farmers of Ollukkara, Nadathara, Kodassery and Chalakudy panchayaths. Forty rural youth in these panchayaths are being equipped with knowledge and skills in Integrated Farming System with the aim of forming block level taskforce, to-propagate Integrated Farming System as a profitable and sustainable model of farming. Field visit to the farms of the master trainees are carried out on a regular basis. Trainings were conducted to this team on vegetable cultivation, plant protection, processing, animal reproduction, poultry quail rearing, fodder production etc and various profitable Integrated Farming System models were introduced to them. The poultry and goat rearing units, aquaponics unit, vegetable cultivation and planting material production units in KVK farm are the venues of hand-on training for the master farmers and the task force. ■

ICAR-KVK TRIVANDRUM

‘KARSHAKA DINAM’ (FARMERS’ DAY)

ICAR Krishi Vigyan Kendra, Mitraniketan, Vellanad, Thiruvananthapuram celebrated the first day of Malayalam month Chingam (17th August, 2022) as ‘Karshaka Dinam’ (Farmers’ Day) to express gratitude to the farmers who are the backbone of our country’s economy.



The day was observed with a call for utilizing the opportunities for the development of entrepreneurs in agriculture and allied sectors. Mr. Srinivasa Pai, Lead District Manager, Indian Overseas Bank, spoke on the importance of entrepreneurship in farming sector. During his inaugural address he stressed on the availability of different loan facilities offered by banks to the farming community through central government schemes like PMFME and ICAR KRISHI VIGYAN KENDRA, KOTTAYAM

the scope of startup programmes in agriculture and allied fields. Participants actively involved in the doubt clearing session led by LDM.

Three successful mushroom entrepreneurs were honoured with memento and traditional shawl by Ms. Sethu Vishwanathan, Chairperson, Mitraniketan. During her presidential address, she emphasized the importance of developing enterprenurs in secondary agriculture due to the low market price for fresh farm





produce. The honoured farmers shared their experiences during the course of their enterprise, emphasizing the commendable support by our KVK during times of distress and initial stumbling blocks.

Senior Scientist & Head, Dr. Binu John Sam explained the facilities and support available from KVK to the farming community. Mrs. Chitra, G., Subject Matter Spe-

cialist (Agri. Engg.) delivered the vote of thanks. Around 50 farmers and farm women attended the programme.

This was followed by a training session on oyster mushroom cultivation and a method demonstration on mushroom bed preparation, coordinated by Ms. Bindhu R. Mathews, Subject Matter Specialist, Plant Protection. ■

ICAR-KVK TUMAKURU I

CELEBRATION OF PARTHENIUM AWARENESS WEEK

ICAR- KVK, Tumakuru-1 organized parthenium awareness program on 19th August 2022 inaugurated by Dr. V. Govinda

connection a mass parthenium removal activity conducted in and around kvk premises. all the participants, staff, teaching and non teaching faculty members are participated on cleaning of parthenium weeds at the academy premises

ONE DAY WORKSHOP ON PETROLEUM CONSERVATION RESEARCH ASSOCIATION



ICAR KVK konehalli conducted 4 workshop on energy efficient agricultural pump set and water conservation sponsored by PCRA, from the month of August 2022. The workshop conducted at 4 places near by KVK Konehalli including kvk premices and create awareness regarding energy conservation practices and water conservation methodologies. Totally 131 farmers from 4 workshop were attended.

Gowda, Senior Scientist and Head, KVK Konehalli and addressed the participants regarding harmful effects of parthenium and its management. In this



ICAR-KVK TUMAKURU II



CAPACITY DEVELOPMENT PROGRAMME FOR EXTENSION FUNCTIONARIES ON “IMPROVED HORTICULTURAL TECHNOLOGIES”

ICAR- KrishiVigyan Kendra, Hirehalli, organised one day Training programme for extension functionaries on “Improved Horticultural and Mushroom Technologies” on 27th August 2022 at KVK, Hirehalli, Tumakuru. The overall objective of the programme is to develop the capacity of Extension Functionaries (Horticultural Teachers) in terms of technical and managerial aspects in the field of horticulture technology management. Shri. Shivananda, Secretary, Craft Teacher Association, Tumakuru, welcomed the guests

during the day. Dr. Loganandhan N., in his address stressed upon front line extension where students and farmers are directly connected at the field level for livelihood development. The technical session was started by Shri Ramesh P.R., Subject Matter Specialist Soil Science, on Mushroom cultivation and soil health management. The interaction session was held in the afternoon in which Sri Prasanth J.M. SMS Horticulture actively involved in solving the practical field problems in horticulture crops, apart from covering other aspects of vegetative propagation. Later, they were taken to instructional farm to learn about grafting techniques at fruit block. The programme was co-ordinated by Sri Jagadish KN SMSAgril. Extension, ICAR KVK, Hirehalli, Tumakuru. ■

ICAR-KVK UDUPI

ARECANUT & COCONUT CROP SEMINAR

One day crop seminar on Scientific Cultivation of arecanut and coconut was organized in collaboration with Department of Horticulture, Udupi at Mookambika Hall, Alooru village.

The seminar was inaugurated by Dr. Dhananjaya B., Senior Scientist & Head, ICAR-Krishi Vigyan Kendra, Brahmavar, Udupi District. In his inaugural speech he stressed upon the benefits of value addition and importance of secondary agriculture in coconut cultivation. He also briefed



about the significance of practicing integrated nutrient management practices in arecanut and coconut cultivation for higher yield.



Smt Jalaja shetty the president of the Alooru Gram Panchayat, in the presidential remarks highlighted about the importance of organizing such crop seminar for the benefit of the farmers. The Vice President of the Alooru Grama Panchayat Shree Ravi Shetty called upon the farmers to seek information from the Scientists with respect to cultivation of arecanut and coconut to improve the crop yield. Shree Nidesh Holla, Senior Asst., Director of Horticulture, Kundapur division welcomed the guests and gave the introductory remarks for conducting the seminar on arecanut and coconut.

Dr Chaitanya H.S., Scientist (Horticulture) ICAR – KVK presented in details through power point about the important

commercial varieties of arecanut and coconut scientific planting method. INM and profitable intercrops that can be grown in arecanut and coconut plantations.

Dr. Revanna, Associate Professor, Entomology, ZAHRS, Brahmavar interacted with the farmers about the management of important pests of arecanut and coconut. He stressed upon the important integrated management practices to be followed in controlling the spread of pests in plantation crops.

The seminar was concluded with an interaction between farmer Scientists to solve the doubts raised by the farmers. The seminar was attended by 130 farmers of alooru and surrounding grama panchayat of Kundapur taluk.

ICAR-KVK UTTARA KANNADA

ARECANUT & COCONUT CROP SEMINAR

training progmmme on ICM in mango during 17.08.2022 to 18.8.2022. Smt. Heena M. S, Scientist (Horticulture) delivered lecture on selection of planting materials/ varieties, planting methods, nutrient management, pruning techniques and scientific management of pest and diseases. Around 45 farmers participated and got benefitted. During the training, method demonstration on pruning and nutrient application methods in mango is organized in farmer's field. Dr. Ravi Scientist (Home science) and



Mango is the most important commercially grown fruit crop of Uttara Kannada district, mainly grown in Mundagod taluk. Most of the farmers of Doeguling Tibetan settlement, Mundgod are growing mango in an area of 400 acres. Krishi Vigyan Kendra Uttarakannada, Sirsi conducted two days

Dr. Prakash D. P. Assistant Professor (Fruit Science) also participated as resource persons in the training programme. Farmers facilitated KVK scientist for organizing training programme and expressed their happiness for providing important technologies of mango cultivation.

ICAR-KVK VIJAYAPURA-I



VICE CHANCELLOR'S VISIT TO INNOVATIVE FARMERS FIELD

A field visit was organized by KVK Vijayapura along with Hon'ble Vice Chancellor of UAS Dharwad Dr. R. Basavarajappa, ADE, AEEC, Vijayapura Dr. R.B. Belli and Nodal officer of KVKs UAS Dharwad



Dr. Sripad Kulkarni to innovative farmer Shri Siddappa Balgond of Kolhar village B. Bagewadi taluk. Shri Siddappa Balgond in his 14 acres of land 10 acres has grown many horticulture crops like apple, Guava, Tamarind, Star fruit, Mango, Banana, Pomegranate, Clustered apple different varieties and he has tried growing new crop mainly apple to this zone. The apple crop was 2 years old and last

year he has harvested the crop and got marginal yield and this year he expected good yield from the all new introduced crops. The Hon'ble Vice Chancellor, Dr. R. Basavarajappa appreciated his innovativeness towards growing new crops to this zone. The field visit was associated by Dr. Shubha S., Senior Scientist



& Head and Mr. Shivalingappa Hotkar, Scientist (Plant Protection) KVK Vijayapura. ■

ICAR-KVK VIJAYAPURA-II

HON'BLE VICE-CHANCELLOR'S INTERACTION WITH FARMERS: A STEP FORWARD TOWARDS FARMERS UPLIFTMENT

Farmer scientist interface programme was organized by Krishi Vigyan Kendra, Indi on 22.8.2022 at Ahirsang village, Indi taluk, Vijayapur district. The programme commenced with the welcome address by Dr. R.B. Belli, Associate Director of Extension, Vijayapur. The Director of Extension, UAS Dharwad, Dr. P.S. Hugar briefed about the purpose of the programme. Further, the programme was inaugurated by the Hon'ble Vice-Chancellor, UAS Dharwad, Dr. R. Basavarajappa. In the inaugural speech, he mentioned that agriculture is the only occupation which provides food to the population and hence advised the farmers to practice organic farming, integrated farming system, protect soil health, practice crop rotation and natural farming. IFS awardee farmer, Shri. Iranna Kudari was felicitated on this occasion

for his achievement. The chief guest of the programme, Shri. P. Mallesh, Honble member, Board of reagents, UAS Dharwad advised the farmers to practice scientific farming to get better yield in various crops. Dr. P.L. Patil, Director of Research, UAS Dharwad advised the farmers to protect soil health and use water judiciously to save soil from salinity. The president of Krishik Samaj, Indi, Smt. Danamma Patil advised the farmers to take technical guidance from scientists for improvement in farming practices. Further interaction was held between the scientists and farmers and solutions were given to the problems faced by farmers in various crops and animal components. Dr. A.P. Biradar (Ento-





mologist), Dr. B. T. Nadgouda (Agronomist), Dr. S. M. Vastrad (Pathologist), Dr. Savita, B. (Soil scientist), Dr. Santosh, S. (Animal scientist), Dr. Kushal,

Dr. I.M. Sarwad, Associate Director of Research, RARS, Vijayapur, Dr. A. S. Sajjan, Nodal officer of KVKs, UAS Dharwad, Dr. Shripad Kulkarni, Senior Farm Superintendent, Dr. R. B. Jolli, Dr. S. Shirhatti, Chief scientist, DLA, Vijayapur, Dr. P.S.Pattar, Head, Agri. Meteriology, DDA-II, Indi, Dr. Chandrakant, Pawar, Director of Lime Board, Dr. Santosh Sappandi, the president of PKPS, Ahirsang, Shri. Venkatesh Kulkarni , officers of line departments such as agriculture, horticulture, sericulture, veterinary, staff of College of Agriculture, Vijayapur, Jain drip irrigation, self help groups graced the occasion. Exhibition was also organized to create awareness among the farmers about the new technologies. The staff and Senior Scientist and Head, KVK Indi, Dr. Prema Patil organized the programme. Nearly 300 farmers and 120 students participated in the programme.



CELEBRATION OF PARTHENIUM AWARENESS WEEK

N. (Horticulturist) and Dr. Arjun, S. (Plant protection) were the resource persons. The Dean (Agri), Vijayapur,

ICAR-KVK WAYANAD

SKILL DEVELOPMENT PROGRAMME ON MUSHROOM FARMING - AN ADDITIONAL INCOME TO FARMERS

KVK Wayanad, conducted one day awareness and training programme on mushroom farming. Training on mushroom bed preparation, spawn production, pest and disease management and value addition were dealt in the session. There was a farmers participation of 64 numbers. Already

ONE DAY TRAINING ON VALUE ADDITION OF PINEAPPLE AND GARLIC TO GOTHRA SARATHI MEMBERS



GOTHRA SARATHI MEMBERS PARTICIPATING IN PRACTICAL SESSION OF VALUE ADDITION OF PINEAPPLE AND GARLIC



THEORY SESSION ON MUSHROOM FARMING

One day training programme was conducted on the value addition of pineapple and garlic. Dr. Safia N.E. handled the theory classes. Products like pineapple pickle, squash, jam, garlic pickle etc were prepared and demonstrated to the farmers. Bottling and preservation without damage were emphasised to the participants. There was an active participation of 10 members of Gothra sarathi group.

established mushroom farmers were very much interested and impressed in mushroom farming seeing it as an enterprise for earning additional income along with farming.



ICAR-KVK YADGIR

TRAINING PROGRAMME ON CROP DIVERSITY AND IRRIGATION WATER MANAGEMENT IN PADDY CULTIVATION UNDER UKP COMMAND AREA



TRAINING ON CROP DIVERSITY AND IRRIGATION WATER MANAGEMENT IN PADDY CULTIVATION

ICAR-Krishi Vigyan Kendra, Yadgir has organized training programme on Crop diversity and irrigation water management in command area for water user association of paddy farmers under Krishna Command Area on 25.08.2022 at KVK premises. Dr. Jaiprakash Narayan R.P, Senior Scientist & Head briefed about crop diversity and paddy fallow crops such as greengram, blackgram and mustard for increasing farm income of command area farmers. They also discussed about short duration & salt resistance paddy varieties for judicious use of natural resources in command area and use of weather based agro-advisory in paddy cultivation. Dr. Umesh Barikara, Scientist [Soil & Water Engg] explained about precise irrigation methods like alternative wetting & drying [AWD] for irrigation water management and he emphasize the direct seeded rice [DSR] method for paddy sowing which saves 30 % of irrigation water in paddy cultivation. He also briefed about soil health card based nutrient application, LCC based nitrogen application, application of bio-fertilizers and cultivation of green manuring crops such as glyricidia & sunhamp for saline soil management in command area. Mr. Guruprasad H talked about integrated pest and disease management in paddy cultivation for reducing application of chemical pesticides. Dr. Kotresh Prasad explained about dairy farming and their uses in paddy cultivation. Around 70 farmers of water user association under Krishna Command Area were participated in the training programme. The staffs of Krishna CADA, B.Gudi & KVK, Yadgir were participated and made event grand success.

INAUGURATION OF KENGURI VET PHARMACY – AN INITIATIVE BY FPO AND KVK

ICAR-KVK, Yadgir has formed Livestock based

FPO namely Kenguri Sheep Farmers Producers Company Ltd. at Saidapur of Yadgir Taluk sponsored by NABARD, Bengaluru. The FPO has started the Kenguri Vet Pharmacy on 22.08.2022 in Saidapur town to provide good quality and genuine medicines to the farmers at lower prices and to give service to the shareholders. The pharmacy was inaugurated by Dr. Sharanaboopal Reddy, Assistant Director, Department of AHVS and Dr. Jaiprakash Narayan R.P, Senior Scientist & Head, ICAR-KVK, Yadgir. The programme was witnessed by Dr. Rajashekar, Assistant Director (Sheep Board), Mr. Arun Kumar, Tata Kalike trust and Dr.



KENGURI VET PHARMACY

Shivanand, Veterinary officer. Dr. Kotresh Prasad, PI of the project briefed about the structure and plans of the FPO. In the inaugural address the dignitaries mentioned that it is first step and innovative idea to make an FPO successful and asked the farmers to participate and involve in all activities of FPO. They also shared their experiences of working with successful FPO's and mentioned that KVK will always be there to support all activities. Tata Kalike trust has enrolled 25 shareholders in the inaugural session and is working on livelihood activities. BoD's Shri. Veerupannalreddy, Shri Basanna-gouda, Shri Siddram Reddy, Shri Shivasharanappa, Shri Devendrapa and CEO Mehaboob witnessed the occasion. ■





ICAR-KVK CHAMARAJANAGAR

TRAINING ON DRUM SEED METHOD OF RICE ESTABLISHMENT

A training programme on Drum seed method of rice establishment was organised at Krishi Vigyan Kendra Chamarajanagara on 10.08.2022. Dr. Shruthi M. K., Scientist (Agronomy) educated the farmers about different methods of rice establishment of rice and significance of drum seed method of rice cultivation in recent days was highlighted. The farmers were trained on use of drum seeder, seed treatment method and use of different pre and post emergent herbicides in drum seeded rice. About 15 farmers were participated in the training programme and inputs like pre and post emergent herbicide, Zinc sulphate and plat protection chemicals were distributed to the beneficiary farmers. ■



TRAINING ON SEED TREATMENT OF RICE

ICAR-KVK LAKSHADWEEP

VELVET BEAN (MUCUNA PRURIENS) ENRICHING SOILS IN COCONUT GARDENS OF LAKSHADWEEP ISLANDS: A POTENTIAL ENVIRONMENTAL SERVICE



Recent studies indicate that soils of Lakshadweep are deficient of nutrients, especially deficiency of potassium, nitrogen and boron causing severe incidences of stem bleeding disease and infestation by whitefly and eriophyid mite. Loss of immunity of coconut palms has been widely observed. One of the recommendations of ICAR-CP-CRI and ICAR-IIHR to KVK-Lakshadweep, ICAR-CMFRI is towards enriching the soil with nutrients. Being an organic territory, all biological methods have to be tried out and fed to the mainstream extension for further scaling up. One of the advised interventions is to introduce Velvet Bean (*Mucuna*

pruriens), which can fix nitrogen in the soil and have the potential to contribute to soil N concurrently increasing the yields.

With this ICAR-IIHR supplied *Mucuna* seeds var. Arka subra to be demonstrated in Kavaratti, Agatti,





and Kadmat islands for assessing the performance. In this series, the first demonstration was held at Kavaratti involving 15 major coconut growers. Seeds of Mukuna were distributed and the concern about soil health was discussed and strategies were drawn out. These 15 farmers will be the first to demon-

strate in their coconut gardens and then scale up. Enriching soil health will be one of the priority areas of KVK-Lakshadweep during 2022-23.

The demonstration was introduced by Dr. P. N. Ananth, Senior Scientist and Head KVK- Lakshadweep. during the demonstration Mr. Shareef, K, District Agriculture Officer and Mrs. Marjan, P.S, Agriculture Demonstrator, Department of Agriculture, UT administration of Lakshadweep were present. Dr. Abdul Gafoor, V.M, SMS of KVK-Lakshadweep coordinated the demonstration. ■

ICAR-KVK RAICHUR



DIAGNOSTIC FIELD VISIT IN SUNFLOWER

A team of scientists, Dr. Shreevani G N, Scientist (Entomology) from ICAR-Krishi Vigyan Kendra, Dr. Ajithkumar, Scientist (Pathology), Dr. Vanishree, Extension Leader, AEEC, Lingasugur and Dr. Chandra Naik, Asst. Prof. (Crop Physiology), ARS, Dhadesugur, UAS, Raichur along with the ADAs and other officials of state agricultural department visited the Sunflower crop based on the request of the farmers. The farmers observed the larvae on the head of the crop and also drying and wilting in some areas and they reported to the department. In this regard, on 25.08.2022 the scientists visited the farmers' fields of mudgal village in Lingasugur taluk of Raichur district in order to address the problems of the farmers. The crop was in the Head formation stage and the larva of *Helicoverpa armigera* Hubner found on the sunflower heads were meager and below ETL (1-2 %). However, it was advised to take up bio-

agents spray in order to manage the pest as well as prevent further incidence. The physiological problems were meager (6-8 %) in the crop anywhere in any of the farmers' fields and 10-15 % sunflower bud necrosis disease was noticed. The farmers were advised to take up preventive spray of 0.25 ml per liter Imidacloprid 17.8 SL at 30 days of crop growth, proper management of nutrients to prevent the physiological disorders and placing pheromone traps in the field at 30 days to monitor the incidence of Head borer, *Helicoverpa armigera* well before the head formation stage and take ovisidal sprays to prevent further damage in the further stages. ■



KOTTAYAM

Kottayam district, located in central Kerala was formed in July 1949. “Kottayam” is a combination of two words “Kotta” and “Akam” means interior of a fort. The district is bordered by the lofty and mighty Western Ghats on the east and Vembanad lake and paddy fields of Kuttanad on the west. Kottayam is a land of unique characteristics. The district has a total area of 2208 sq. km. The district is naturally divided into high land, mid land and low land, the bulk being constituted by the midland regions. It has tropical climate with an annual average rainfall of 3130 cm. Panoramic backwater stretches, lush paddy fields, highlands, hills and hillocks, extensive rubber plantations are the specialty of this district. Kottayam is the land of Letters, Legends, Latex and Lakes. The district comprises of 3 agro ecological units (AEUs) AEU 4- Kuttanad, AEU 9- South Central Laterites, AEU 12- Southern and Central Foot Hills. Kuttanad is a special agro ecological unit delineated to represent the water logged lands, lying below, at or just above sea level with mean annual rainfall of 2746.1 mm. Hydromorphic soils often underlain by potential acid sulphate sediments and unique hydrological conditions characterize the unit. Sea water ingress in to Kuttanad is controlled through bunds and barrages to facilitate rice cultivation. Coconut is grown on uplands and bunds and rice in lowlands.

Krishi Vigyan Kendra, Kottayam, is located in the hot spot of the backwater tourism- Kumarakom. Kumarakom is one among the established international tourist destinations in South Asia that attract both domestic as well as foreigners with thrust in backwater tourism. With the development of several resorts catering to the domestic and international tourists, there is abundant opportunity to develop tourism combining commercial tourism with the agricultural activity to the benefit of farming community

The district is famous for homestead based integrated farming system with fishes and livestock along with field crops and horticulture crops. Fish integrated paddy farming is a traditional practice in Kuttanadan padashekharms. Pearls spot, the state fish is native to Kuttanad backwaters and Vembanad ecosystem has rich biodiversity of indigenous fishes. Kuttanad duck (Chara/Chempalli) and buffalo rearing is the common practice in this ecosystem.



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