

ICAR-KRISHI VIGYAN KENDRA (D.K.)

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Save Soil Campaign

ICAR, Krishi Vigyan Kendra in association with Volunteers of ISHA Foundation, Mangaluru and College of Fisheries, Mangaluru were organised programmes of Save Soil campaign at Seminar Hall of KVK on 08.07.2022 and at College of Fisheries on 15.09.2022. Save Soil is a global movement launched by Sadhguru, to address the soil crisis by bringing together people from around the world to stand up for Soil Health. Dr. T. J. Ramesha, Senior Scientist and Head, during his speech suggested to adopt soil conservation practices to save soil and plant nutrients along with integrated nutrient management practice. Sixteen-year-old **Sahil Jha** who had travelled 25000 kms across the country with the mission to save soil for the future generations was also felicitated by Prof. Shivakumar Magada, Dean, College of Fisheries Mangaluru during the programme. Shri Praveen Kumar, Hatha yoga teacher, Isha foundation spoke about importance of soil and its conservation. Dr. Malikarjuna L Scientist (Soil Science) coordinated the programmes and spoke about the importance of productive soil and its protection for sustainable life on the Earth, Shri Dinakar Poojary, Dr. Shivakumar R. Scientist (Animal Science), Dr. Kedarnath Scientist (Plant protection), Dr. Rashmi R. Scientist (Horticulture), Priyalatha, volunteer of Isha foundation, KVK staff and 95 farmer, farm women and students participated in these programmes.



## Agriculture workshop on conservation of Petroleum products and usage of energy efficient pumps in Agriculture

ICAR, Krishi Vigyan Kendra organised one day agriculture workshop at Pavooru village of Ullal Taluk on 21.07.2022 and at Kalleri village of Belthangady Taluk on 10.08.2022. Dr. Mallikarjuna L. Scientist (Soil Science) in his deliberation covered aspects on various conservation measures of petroleum products and energy while cooking, driving and purchase of energy /fuel efficient pumps/motors etc. He also explained about the energy conservation efficiencies in different sectors like transport, industry, domestic and in agriculture sectors. Dr. Shivakumar R. Scientist (Animal Science), was presided over the function, Shri Jeevan Kolya, District Programme Manager, Bharathiya Vikas Trust, and 82 farmer and farm women participated in these Programmes.



## Capacity development programme on application of Magnesium Sulphate in Paddy

ICAR, Krishi Vigyan Kendra organised one day off campus capacity development programme on 'Effect of magnesium sulphate on growth and yield of coastal paddy' at Badaga karandooru village of Belthangady Taluk on 01.09.2022. Dr. Mallikarjuna L Scientist (Soil Science) highlighted on role of magnesium and sulphur on growth and development of crop, plant and its benefits on quality and yield. On Farm Testing was implemented at five selected farmers fields and provided critical inputs like  $ZnSO_4$  and  $MgSO_4$ . There were twenty farmers, farm women and Dr. Shivakumar R, Scientist (Animal Science) associated in this programmes.





## Management of Potassium in coastal paddy

ICAR, Krishi Vigyan Kendra organised one day off campus capacity development programme on 'Management of potassium in coastal paddy' at Hirebandady village of Puttur Taluk on 12.09.2022. Dr. Mallikarjuna L Scientist (Soil Science) spoke on role of potassium on growth and development of crop, plant and its benefits on quality and yield. To popularize this technology frontline demonstration was conducted at ten selected farmers paddy fields through providing critical inputs like  $ZnSO_4$  and Muriate of Potash etc. There were twenty-eight farmers, farm women and Dr. Rashmi R, Scientist (Horticulture), associated in this programme



## Eco-friendly pest and diseases management in paddy

To educate the agri-input dealers and build their technical competency in agriculture and to facilitate them to serve the farmers better, ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized a method demonstration on eco-friendly pest management practices in paddy with theme objectives on the selection of good quality seedlings, root dipping of seedling with *Trichoderma viride* @  $10g L^{-1}$  of water and *Pseudomonas fluorescens* @  $10g L^{-1}$ , clipping of paddy leaves tip before transplanting to eliminate the egg masses of yellow stem borer and installation of pheromone traps for the monitoring and control of yellow stem borer on 12.08.2022 at KVK

(DK) Mangaluru. In this programme, Dr. Kedarnath, Scientist (Plant Protection) educated the agri-input dealers on scientific management of pest and diseases in paddy. A Totally of 38 Agri-input dealers, and KVK staff were participated.



## Diagnosis of pest and diseases in horticulture crops

Plant diseases and pests play a major role in crop production, reducing the yields and quality of the produce. Without proper identification of the diseases and the disease-causing agent, disease control measures can be a waste of time and money and can lead to further plant losses. In this regard ICAR-Krishi Vigyan Kendra (D.K) organised a capacity development cum method demonstration programme on diagnosis of pest and diseases in horticulture crops for the input dealers on 22.07.2022 and 25.07.2022. Dr. Kedarnath Scientist (Plant Protection) and Coordinator of DAESI programme briefed about diagnostic symptoms caused by the plant pathogens and pests in coconut, arecanut, black pepper, cocoa, cashew and mango and also organised the method demonstration on collection and identification of pest and diseases. Total 76 DAESI students participated in the programme.



## Importance of seed treatment in plant health management

Seed treatment plays an important role in protecting the seeds and seedlings from seed and soil borne diseases and insect pests affecting crop emergence and its growth. In this regard, ICAR-KVK (D.K), Mangaluru organised a capacity development programme cum method demonstration on seed treatment for DAESI students on 22.07.2022. Dr. Kedarnath Scientist (Plant Protection) briefed about the selection of healthy seeds, seed treatment and method to be adopted during seed treatment. Total 38 members were present during the demonstration.



## Importance of Trichoderma fortified vermicompost

Trichoderma has achieved a special position in the field of agriculture as a potent fungal bioagent besides being a plant growth promoter and improving composting ability. They are enormously interactive in root, soil and foliar environments and economically viable for combating a wide range of plant diseases. In this regard ICAR-KVK (D.K) Mangaluru organised a method demonstration on fortification of vermicompost with Trichoderma for DAESI input dealers on 22.07.2022. Dr. Kedarnath, Scientist (Plant Protection), ICAR-KVK (D.K) Mangaluru briefed about the importance of Trichoderma in plant disease management and also coordinated the hands-on training on fortification of vermicompost. A total of 38 DAESI input dealers participated.





### Diagnostic visits to farmer's field

Rice is the most important food crop in India. Pest severity of rice is influenced by crop growth and prevailing weather. In this regard, ICAR-Krishi Vigyan Kendra (Dakshina Kannada) in association with Department of Agriculture Dakshina Kannada visited pest and diseases affected farmers paddy field to diagnose the disease and advised the management practices. Dr. Kedarnath, Scientist (Plant Protection) from ICAR-KVK (D.K) Mangaluru briefed about diagnostic symptoms produced by different pest and diseases and also suggested the management practices. Dr. Mallikarjun L., Scientist (Soil Science) was also part of the visit and suggested fertiliser applications procedure and soil sampling methods in paddy field. Mr. Baramanna, Agriculture Officer, RSK Uppinagady and ATMA officials were also part of the visit.



### Exposure visits to CPCRI, Kasaragod

ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized exposure visit to Central Plantation Crop Research Institute, Kasaragod for Diploma in Agriculture Extension for Input Dealers on 20.08.2022 and 23.09.2022. In these programmes Dr. Prathiba V. H., Scientist (Plant Pathology) and Dr. Rajini, T. N., Scientist (Crop Improvement), CPCRI Kasaragod participated as resource person and briefed about the demonstration and technologies of CPCRI. Dr. Kedarnath, Scientist (Plant Protection) coordinated the programme. A total of 76 DAESI students participated in the programme.



## KVK Placement of Horticulture students

ICAR KVK (D.K) Mangaluru in association with College of Horticulture, Mudigere, organised internship programme for the final year degree students of B.Sc. (Hons.) Horticulture from 22.08.2022 to 03.09.2022 as a part of Student READY Programme of the academic year 2022-23. The programme was coordinated by Dr. Kedarnath, Scientist (Plant Protection and Entomology), ICAR-KVK (D.K), Mangaluru. Dr. Shivakumar, R., Scientist (Animal Science), Dr. Chethan N., Scientist (Fisheries), Dr. Mallikarjuna, L., Scientist (Soil Science) and Dr. Rashmi R., Scientist (Horticulture) KVK Mangaluru participated as a resource person in the programme. Dr. T. J. Ramesha, Senior Scientist and Head KVK Mangaluru, briefed about mandated activities of the institute and urged the students to take up professional career.



## Scientific crop management in black pepper and apple mango

ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in collaboration with Department of Horticulture Belthangady, organized a capacity development programme on scientific crop management practices in black pepper and apple mango at Kaliya village of Belthangady taluk. This programme was inaugurated by Mrs. Subhashini K., president gram panchayat Kaliya. Mrs. Kusuma, Vice president gram panchayat Kaliya participated as chief guest. Mr. Chandrashekar, SADH, Department of Horticulture, Belthangady welcomed the gathering and in his welcome speech provided information about the schemes available for farmers and importance of horticulture in the district. Dr. Kedarnath, Scientist (Plant Protection) briefed about integrated crop management practices in black pepper and apple mango crops and also explained pest and diseases management in other important horticulture crops of the district. Mr Mahaveer and Mr Basavaraj Biradar, Assistant Horticulture Officers, staff of the Agriculture and Watershed dept., Mr. Santosh, Panchayat Development Officer were also part of the programme. A total of 65 farmers were benefitted from the programme.



## Capacity development programme for Extension Functionaries

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada), Mangaluru in association with Education Department, Zilla Panchayat (Dakshina Kannada), Department of Horticulture and Bharatiya Vikas Trust, Manipal organised capacity development programme for Primary School Teachers under Akshara Dasoha Campaign held on 27-07-2022 at Sri Rama Primary School, Kalladaka. Mr. Kalladaka Prabhakar Bhat founder of Sri Rama Primary School, Kalladaka inaugurated the event.

Dr. Rashmi R., Scientist (Horticulture) coordinated the programme and delivered a lecture on importance of fruits and vegetable consumption and nutri garden establishment to ensure the availability of fresh vegetables as well as to save the money towards purchase of vegetables. She also explained in detail about the types of vegetables to be grown in nutri garden, plan, layout and establishment of kitchen and terrace garden in the school premises. Mrs. Usha, Special Officer, Akshara Dasova, Education Department, Dakshina Kannada welcomed the guests and programme was ended with vote of thanks by Dr. Jinesh, BEO, Bantwala. Mr. Pradeep D'Souza, Senior Assistant Director of Horticulture, Bantwala, highlighted about the schemes available for Nutri Garden establishment at Department of Horticulture. Mr. Jeevan, Programme Coordinator, BVT, Manipal and 193 Primary School Teachers from 83 schools of Dakshina Kannada District and staff of Sri Rama School, Kalladakka were participated in the programme.



## Orientation programme for Students

On 21.07.2022, Dr. Rashmi R., Scientist (Horticulture), ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru delivered a lecture for BSc students of University College, Mangaluru covering aspects of career opportunities in agri and allied sector, scope and importance of horticultural crops and also the horticulture-based activities undertaken in ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru. During the programme Dr. Nagaratna, Professor and NSS Coordinator, staff and 65 students were present.



## Workshop on Geographically Indicated Flower Crop-Udupi Jasmine Cultivation

Department of Horticulture, Dakshina Kannada organized a capacity development programme on Udupi Jasmine cultivation at the premises of Sri Durga Parmeshwari temple, Kateelu on 03-07-2022. Mr. Umanath Kotian, MLA of Moodbidri Constituency inaugurated the programme and in his inaugural address opined that Dakshina Kannada and Udupi districts are known for Udupi Jasmine Cultivation. Farmers of both the districts should take the benefit of schemes of department of horticulture and information from the scientists of Krishi Vigyan Kendra to enhance the income and to lead a sustainable life. During the programme the principal priest of Sri Durga Parameshwari Temple, Kateel addressed the gathering that jasmine is known for its unique aroma and favorite flower to delivery day and millions of flowers are offered by the devotees daily and jasmine is a profitable crop and temple authorities will always encourage the farmers to cultivate jasmine.

Dr. Rashmi R., Scientist (Horticulture), ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru participated as a resource person and delivered a lecture covering aspects on importance of Udupi Jasmine, its cultivation, methods and time of pruning for off season flowering. During the programme 2000 plants were provided to 185 jasmine growers. Mr. Praveen, Senior Assistant Director of Horticulture, Mangalore welcomed the guests and highlighted about the schemes of the department and programme was ended with vote of thanks by Mr. Yugendra, Assistant Horticulture Officer, Mangalore. Dr. Sajana S. Assistant Horticulture Officer, Mangalore, progressive farmers graced the event. Around 225 jasmine growers, farmers and farm women got benefitted from this programme



## Celebration of World Coconut Day

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangalore organized World Coconut Day on 02-09-2022. Dr. Ramesha T.J., Senior Scientist and Head inaugurated the event and in his inaugural speech highlighted about the importance of World Coconut Day celebration and theme for the year 2022 is "Growing Coconut for a Better Future and Life".

Dr. Rashmi R., Scientist (Horticulture), ICAR-KVK, Mangalore coordinated the programme and urged for cultivation of coconut palms as it is often called the 'tree of life' owing to its versatile use in food, fuel, medicine, cosmetics, building materials, and various other uses.

Dr. Shivakumar R. Assistant Professor (Animal Science), Dr. Kedarnath, Scientist (Plant Protection) and Dr. Mallikarjuna L., Scientist (Soil Science), Ms. Vijitha, DAESI Facilitator, 40 input dealers and students of COH, Mudigere were present during the programme.





## Capacity development programme on Nutri garden for SC Farmers

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized training programme on Nutri garden for SC farmers under SCSP Programme programme of ICAR-CPCRI, Kasargod at Daregudda, Panapila, Nelliakaru villages of Moodbidri taluk and Hirebaddadi Village of Puttur on 09-09-2022 and 12-09-2022 respectively. Dr. Ramesha T.J. Senior Scientist and Head addressed that Nutrition is the science or practice of consuming and utilising foods. A balanced diet is important for good health and well being. Dr. Rashmi R., Scientist (Horticulture) coordinated the programme and in her deliberation focused on plan, layout and establishment of kitchen garden. Vegetable seeds of IIHR were provided to 80 selected SC farmers, farm women. Dr. Mallikarjuna, Scientist (Soil Science), Mr. Subramani NRLM, Programme Coordinator, Mr. Iatheesh and Mr. Sai Kumar, ATM, ATMA graced the occasion.



## Observing of Poshan Abhiyan and Tree Plantation Programmes

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangalore in collaboration with IFFCO organized Poshan Abhiyan and Tree Plantation Programmes on 17-09-2022 at Krishi Vigyan Kendra, Mangalore. Mrs. Shankar, Supervisor, Child Development and Women Welfare Department inaugurated the event and in her inaugural speech she highlighted about Poshan Maah celebration. Dr. Ramesha T.J., Senior Scientist and Head in his deliberation focused on nutri sensitive agriculture, development of entrepreneurship among youths, value chain development and importance of fish consumption to maintain human health. Mrs. Harini, President of Taluk Sri Shakti Group participated as a chief guest.

Dr. Rashmi R., Scientist (Horticulture), ICAR-KVK, Mangalore coordinated the programme and delivered a lecture on importance of fruits and vegetable consumption and nutri garden establishment to ensure the availability of fresh vegetables for consumption as well as to save the money towards purchase of vegetables. She also explained about the types of vegetables to be grown in the nutri garden and also stressed upon plan, layout and establishment of kitchen and terrace garden in the school premises, bio-fortified crop varieties, nutri-cereals and their role in nutritional security among farm women and farmers.

Seasonal vegetable seeds of 100 pockets and 15 papaya seedlings were provided to farmers, farm women, input dealers and anganawadi workers. Ms. Vijitha, DAESI programme facilitator welcomed the guests and programme was ended by planting two coconut trees at campus premises. During the programme Mr. Hariprasad, input dealer cum DAESI student, Mr. Satish, Programme Assistant (Computer), 142 farmers, farm women, input dealers, anganawadi workers of the district and staff of KVK graced the event.





## Value addition in Tomato and Papaya

On 24.09.2022, ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized method demonstration on Tomato Ketchup and Papaya Tutti preparation for Diploma in Agricultural Extension Services for Input dealers sponsored by MANAGE, Hyderabad.

Dr. Rashmi R., Scientist (Horticulture), ICAR-KVK, Mangalore participated as a resource person and delivered a lecture on post-harvest management and value addition of horticultural crops and method demonstration on preparation of Tomato Ketchup and Papaya Tutti Frutti. Dr. Kedarnath, Scientist (Plant Protection), ICAR-KVK, Mangalore coordinated the programme and Mr. Vijitha, DAESI Facilitator and 38 Input dealers were present during the programme.



## Human Resource Development Activities:

Dr. Rashmi R., Scientist (Horticulture) participated in the five days training programme entitled “Entrepreneurship Development for Women Officers of Agri. and Allied Sectors” organised from 14 to 18 June, 2022 at Extension Education Institute (Southern Region) Dept. of Agriculture, Cooperation & Farmers Welfare Ministry of Agriculture & Farmers Welfare, Govt. of India, PJTSAU, Rajendranagar, Hyderabad



## Fisheries field day on monoculture of Amur common carp

The ICAR-Krishi Vigyan Kendra, Dakshina Kannada celebrated field day on “Monoculture of Amur common carp in farm ponds” at Beluvai. Dr. Chethan N. Scientist (Fisheries) briefed about the importance of fish culture and effective utilization of farm ponds. Amur common carp under monoculture has a better yield compared to the composite culture with local strain of common carp. Amur common carp withstands the sudden change in the aquatic environment, has got faster growth rate of 27%, disease resistance. catla, rohu, common carp are being the majorly cultured species in the district with tilapia and pangasius as alternative species in various waterbodies. Under the composite farming and monoculture scientific management is need of the hour and majority of the farmers fail in selecting the quality fish seed and scientific fish seed stocking. Compared to the local strain Amur common carp has more market value due to its shape and taste. Mr. Ramakrishna Shenoy, progressive farmer shared his experience of fish culture using farm ponds and integrated farming. Integrated approach has been the right approach to overcome the lacunas in farming and multi cropping system. Amur common carp accepts the local formulated feeds and can grow upto 1.5 kg on an average in a year. Farmers from different parts of the district witnessed the programme.



## Capacity development programme on usage of small Ruminant mineral mixture on production performance in goats in coastal region

ICAR Krishi Vigyan Kendra Dakshina Kannada organized one day off campus capacity development programme on usage of small Ruminant mineral mixture on production performance in goats in coastal region to the Goat farmers and farm women at Kajoor village of Belthangady taluk, Dakshina Kannada district on 01.09.2022. Dr. Shivakumar, R., Assistant Professor coordinated the training programme and, in his speech, he emphasized on over all benefits of usage of small ruminant mineral mixture in terms of growth and production performance in goats. About 20 farmers and farm women were benefitted by this programme and to the 10 goat farmers and farm women were distributed with the critical inputs like small ruminant mineral mixture and deworming suspension for front line demonstration purpose. During this programme Dr. Mallikarjun, L., Scientist (soil science) was also present.





## Capacity development programme on Aquaculture using farm ponds

KVK, Dakshina Kannada in collaboration with Bejja Watershed (NABARD WDF) organised a training programme on aquaculture using farm ponds at KVK, Dakshina Kannada. Mr. Sadashiva Rao, Secretary, Bejja watershed Committee was the inaugurator for the programme. President for the programme was Dr. Ramesha T. J., Senior Scientist, and Head, KVK, Dakshina Kannada.

Dr. Ramesha T. J., Senior Scientist and Head, explained how a successful fisheries enterprise can be developed without much investment and by utilizing the available resources. Dr. Chethan N. Scientist (Fisheries) trained the farming community on water usage, basic aquaculture techniques, fish seed selection and stocking, culture methods and management aspects in the farm ponds aquaculture.

Method demonstration of liming and fertilization was also carried out. The participants checked the primary production levels by filtering the water from the culturing pond for concentration of plankton. Fertilizing the pond was also demonstrated with the fresh cow dung to enhance the primary productivity and liming was carried out in a new pond to correct the pH of the water. These demonstrations were helpful for the participants to understand the concept better.







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