



KLE SOCIETY'S

ICAR - KRISHI VIGYAN KENDRA

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e-News Letter

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Significant Achievements

I. On Farm Testing

Four on farm testing (OFT) are continued and the crop is around 75 days old. Observations are being carried out by the Scientists of the KVK to assess the better technology options. The list of continued OFTs is furnished below

Sl. No.	Crop/Enterprise	Title of the OFT	Technology assessed	Village & Taluk	Stage of the crop
1	Paddy	Assessment of Paddy varieties (RNR-15048, GNV-1089) for higher yield	TO1: BPT-5204 (UAS, Dharwad) TO2: RNR-15048 (DRR-Rajendra Nagar) TO3: GNV-1089 (UAS, Raichur)	Karavinakopp, Khanapur	Panicle initiation stage
2	Bt.Cotton	Assessment of intercropping system -Bt.Cotton	TO1: Bt.Cotton (Farmer Practice) TO2: Bt.Cotton + Soybean (1:2) (UAS, Dharwad) TO3: Bt.Cotton + Green peas (1:2) (CICR, Nagpur)	Bevinakopp, Bailhongal	65-70 days old crop
3	Okra	Assessment of High yielding hybrids in Okra	TO1: Pvt. Hybrids TO2: Co-4 (TNAU, Coimbatore) TO3: Arka Nikita (IIHR, Bengaluru)	Ingalagi, Savadatti	Fruiting stage
4	Maize	Assessment of entomopathogens for management of Fall army worm in maize	TO1: Emamectin benzoate 5%SG (Farmers practice) TO2: Spraying with <i>Metarhizium rileyi</i> @2g/l at 20 DAS, three whorl spray at the interval of 8 days. (UAS, Dharwad) TO3: Spraying of <i>Pseudomonas entomophila</i> @20g/l at 20 DAS, four whorl spray at the interval of 8 days (NBAIR, Bengaluru)	Rokkadakatti, Ramdurg Tq	Grand growth stage



Paddy



Bt.Cotton



Okra



Maize

II. Frontline Demonstrations

The problems of the farmers were addressed through frontline demonstrations in identified DFI villages for major crops grown in the district with a intention to enhance the productivity by showcasing suitable technology of the farmers field. Intercropping system in groundnut and cotton was also introduced to the farmers of the region to gain remunerative income during aberrant weather conditions. The list of FLDs is presented below.

Sl. No.	Crop/Enterprise	Title of the FLD	Technology demonstrated	Village & Taluk	Stage of the crop
1	Sugarcane	Management of white grub in sugarcane	<i>Metarhizium anisopliae</i> , Adult collection	Ingalagi, Savadatti	Grand growth stage

Sl. No.	Crop/ Enterprise	Title of the FLD	Technology demonstrated	Village & Taluk	Stage of the crop
2	Fodder	Demonstration on fodder production technology in farmers fields	Perennial grasses, multi cut fodder crops and trees	Karavinakopp, Khanapur	Vegetative stage
3	Sugarcane (2020-21)	Integrated Nutrient Management in Sugarcane	<i>Azospirillum</i> , PSB, Zinc sulphate, Ferrous sulphate, Amonium molybdate	Karavinakoppa and Rokkadakatti	Grand growth stage
4	Groundnut	Demonstration of Groundnut (Dh-256)+Bajra(4:1) intercropping system	Variety, seed treatment with bio-fertilizer, integrated nutrient management, IPDM	Rokkadakatti, Ramdurg	60-65 days old crop
5	Bt.Cotton	Demonstration of Bt.Cotton+Soybean (1:2) intercropping system	Variety, seed treatment with bio-fertilizer, INM,IPM and grading	Bevinakopp, Bailhongal	60-65 days old crop
6	Maize	Integrated Crop Management Maize	Seed treatment with bio-fertilizers, INM, IWM and IPM	Rokkadakatti, Ramdurg	Cob formation stage
7	Onion	Demonstration of Manually drawn onion seeder	Sowing implement, reduced seed rate, uniform bulb size	Rokkadakatti, Ramdurg	Vegetative stage
8	Soybean	Integrated Pest & Disease Management in Soybean	Variety, seed treatment with Cyantraniliprole + Thiamethoxam @ 32 ml in 60 ml water/ 25 kg seeds, chemicals and IPM (Bt. formulation @1ml/l, pheromone traps & lures)	Bevinakopp, Bailhongal	Pod formation stage
9	Bt.Cotton	Management of pink bollworm (<i>Pectinophora gossypiella Saunders</i>) in Bt.Cotton	IPM (Sleeve traps, <i>Trichogramma</i> bacteria, Refuge crop (5 rows non Bt) through eco-friendly interventions	Bevinakopp, Bailhongal	Vegetative stage
10	Green gram (CFLD)	Integrated Crop Management in Green gram	Seed treatment with <i>Rhizobium</i> and PSB, integrated nutrient and pest and disease management	Hosur,Savadatti	Harvesting stage
11	Paddy	Mechanization in paddy transplanting	Demonstration of mechanization in paddy	Karavinakopp, Khanapur	Vegetative stage

III. Special Programmes

a. Scheduled Caste Special Programme sponsored by ICAR-ATARI, Bengaluru

Sl. No.	Crop/ Enterprise	Title of the FLD	Technology demonstrated	Village & Taluk	Stage of the crop
1	Soybean	Demonstration of Soybean variety Dsb-21	Seed treatment with <i>Rhizobium</i> and PSB, integrated nutrient and pest and disease management	Jaknayakanopp,Markatti, Kesarkopp, Yargopp	60 -65 days old crop
2	Onion	Integrated Crop Management in Onion	Variety, soil application of bio-fertilizers and spray of micronutrient mixture	Yargatti, Savadatti	Bulb development stage

b. Scheduled Caste Special Programme sponsored by ICAR-IISR, Indore

Sl. No.	Crop/ Enterprise	Title of the FLD	Technology demonstrated	Village & Taluk	Stage of the crop
1	Soybean	Demonstration of Soybean variety Dsb-21	Seed treatment with <i>Rhizobium</i> and PSB, integrated nutrient and pest and disease management	Koravikopp, Mutwad, Holenagalapur, Siddasamudra, Bailhongal taluk	60 -65 days old crop

III. Training Programmes

a. On campus training programme

Dr.S.S. Hiremath, Scientist (Plant Protection) organized training on 'Safe and effective methods of chemicals' to the farmers of Mattikopp, Sutgatti and Deshnur, Bailhongal taluk on 12.08.2021. During the training, he highlighted about the Do's and Dont's for safe use of pesticides. Further, expressed that due care should be taken that pesticides should not fall on any body parts and wearing protective clothing is must to protect one from carcinogenic diseases and also suggested that sprayers should be used separately for both weedicides and insecticides.

Training on 'Organic Farming in Fruit Crops' was organized at the KVK for farmers of Mattikopp village of Bailhongal taluk 01.08.2021. Praveen Yadahalli, Scientist (Horticulture) opined that growing fruits and vegetables in the organic way fetches more price to their produces which leads to doubling farmers income as compared to using synthetic chemicals. Organic farming involves uses of animal manures, crop residues, green manures to maintain soil fertility.

One day training programme on Balanced nutrition in dairy animals was held 10.08.2021. The programme was inaugurated by Smt. Sridevi, Senior Scientist and Head, ICAR KLE KVK, Mattikopp and stressed on importance of role of nutrition in milch animals. Dr. Nagesh Huilgol, Scientist (Animal Science) explained about different nutrients required for providing balanced nutrition in dairy animals and preparation of balanced concentrate feed. A total of 25 farmers participated in the programme.

Dr. Nagesh Huilgol, Scientist (Animal Science) conducted on campus training programme on Integrated dairy management for dairy animals on 26.08.2021. During the training, he stressed on strategies for increasing milk production by adoption of integrated dairy management. Importance on use of mineral mixture, bypass fat, dewormer and use of ectoparasiticide was detailed to the farmers. A total of 30 farmers participated in the training programme.

Mrs. Sridevi B. Angadi, Senior Scientist & Head organized training on Use of location specific drudgery reduction equipments' to the farmers of Mohare & Deshnur of Bailhongal taluk on 28.08.2021. 'Farmwomen as a part of agriculture activities participate in sowing, transplanting, weeding, thinning, harvesting, winnowing etc., which is drudgery prone. ICAR institutes and State Agriculture Universities (SAU) have developed drudgery reducing equipment which are women friendly and aids in faster work effectively. The drudgery reucing equipments are vegetable seedling transplanter, cycle weeder, dibbler, groundnut decorticator, groundnut stripper, single eye bud cutter for sugarcane etc.,



b. Off campus training programme

G.B. Vishwanath, Scientist (Agronomy) conducted off campus trainings programmes on Integrated Crop Management in Sugarcane at Sampagoan, Bailhongal taluk on 10.08.2021. One more training on Integrated Crop Management in Paddy at Karavinakoppa, Khanapur taluk on 23.08.2021.

Integrated crop management in paddy was held at Karavinakopp village, Khanapur taluk. During the training, G.B. Vishwanath, Scientist (Agronomy) interacted with farmers stating that seed treatment is a very important step which will avoid seed borne and soil borne diseases and pest. Further, highlighted about the raising nursery on mat method which saves seed rate by 70 per cent as compared to traditional method of raising nursery and also discussed about nutrient and weed management.

Breast feeding week awareness programme was carried out to the farmwomen of Bailwad, Bailhongal taluk. Mrs. Sridevi B. Angadi, Senior Scientist & Head highlighted about the importance of breast feeding to the babies. She stressed that breast feeding must be initiated within one hour of birth and excessive breastfeeding to be should be done upto six months old and to be continued upto two years alongwith complementary foods. The benefit of breastfeeding helps infants to fight against infections and to promote good health and development during infancy period.



c. Vocational training programme

Mrs. Sridevi B. Angadi, Senior Scientist & Head organized six days vocational training programme on construction of school uniform in collaboration with UAS, Dharwad at Bailwad, Bailhongal taluk for livelihood security of farmwomen. The aim of the training was to establish farmwomen involvement in cutting and stitching skills of school uniforms. Five to six models of boys and girls school uniforms were trained by Dr. Sannapamma K.J., Associate Professor and Senior Scientist, AICRP, Home Science (Clothing and Textiles), MARS, UAS, Dharwad. During the valedictory function Prof. R.R. Hanchinal, Former Chairperson, Protection of Plant Varieties & Farmers' Rights Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi and Former Vice Chancellor, UAS, Dharwad presided over the function and appreciated the KVK efforts made for creation of band of entrepreneurs in KVK jurisdiction taluks for empowering women for their livelihood security. The group will be taking up of this venture way forward to obtain financial security to support their family income.



IV. Extension Activities

a. Rowing Pest Survey

Rowing Pest Survey was organized in collaboration with Dept. of Agriculture, Belagavi in entire Bailhongal taluk by forming 13 teams and covered 35 Gram Panchayat by creating awareness on rust and stem fly management in soybean. The survey was flagged off by Shri Mahantesh Dodagoudar, Hon'ble, MLA, Kittur and Shri Mahantesh Koujalagi, Hon'ble MLA, Bailhongal. A team of four members for each Gram Panchayat was formed and visited the surrounding villages to educate farmers to take prophylactic measures for prevent of rust and stem fly in soybean.



b. Method demonstration on paddy sugarcane

Paddy transplanting machine was method demonstrated to the farmers of Karavinakopp village, Khanapur taluk. Mrs. Sridevi B. Angadi, Senior Scientist & Head, Shri S.S. Patil, Joint Director of Agriculture, Belagavi, Shri H.D. Kolekar, Deputy Director of Agriculture, Belagavi, ADA, Khanapur and KVK Scientists were present. Mrs. Sridevi B. Angadi, Senior Scientist & Head, explained about drudgery reduction process by utilizing mechanical transplanter in paddy as compared to traditional practice. G.B. Vishwanath, Scientist (Agronomy) briefed about preparation of land for transplanting the paddy in the main field and water management. S.M. Warad, Scientist (Soil Science) explained about the nutrient management in paddy.



c. Demonstration of pesticides spray using Drone

KVK has demonstrated pesticide spray in soybean in collaboration with GARUDA AERO SPACE PRIVATE LIMITED, Chennai. During the demonstration, the advantages of spraying pesticides through drone was highlighted stating that it requires 30 minutes to spray one acre with a maximum height of drone from 4-5 m. It protects farmers from harmful pesticides effects by handling and it uses minimum water for spraying. A total of 40 farmers, 15 students and Extension functionaries participated in the event.



d. Workshop on Food and Nutrition for farmers

Agriculture is a main stream of occupation of majority of the farmers. On the eve of 75th Azadi Ka Amrit Mahotsav KVK organized one day workshop to the farmers on Food and Nutrition for farmers on 26.08.2021. During the workshop G.B. Vishwanath, Scientist (Agronomy) highlighted about the bio-fortified varieties developed by ICAR institutes/ SAUs in crops viz., rice, wheat, maize, pearl millet, lentil, mustard, sweet potato, cauliflower and pomegranate. These bio-fortified varieties are more nutritious than the traditional varieties which are fortified with nutrients such as zinc, iron, calcium, protein and anthocyanin. Further, assured farmers to supply seeds for their cultivation. Mrs. Sridevi B. Angadi, Senior Scientist & Head highlighted the importance of nutritious diet for proper growth and development of an individual. A balanced diet compulsory should include cereals, pulses, fruits, vegetable, oil and fats, jaggery (major 5 food groups) and dairy products to provide essential nutrients to the body. S.M. Warad, Scientist (Soil Science) briefed on various nutrients required by crop and methods of supplying these nutrients to the soil on integrated mode such as organic manures, chemical fertilizers, bio-fertilizers and green manures. This will improve the soil fertility status and soil physical properties of the soil. Dr. Nagesh Huilgol, Scientist (Animal Science) explained on adoption integrated dairy management by using mineral mixture, bypass fat alongwith good quality green fodder. Further, advised use of proper dose of dewormer and ectoparasiticide for control of worms and external parasites. Dr.S.S. Hiremath, Scientist (Plant Protection) briefed the gathering about importance of celebrating 75 years of Independence Azadi Ka Amrit Mahotsav DFI concept and various approaches to improve productivity and value addition in cereal and pulse crops. 75 farmers from Mattikopp, Bevinakopp, Sutagatti, Mohare and Somanatti villages of Bailhongal taluk took part in the event.



e. Azadi Ka Amrit Mahotsav

On eve of 75 Independence Day under the "Azadi Ka Amrit Mahotsav". KVK celebrated with farmers to commemorate the efforts made by the freedom fighters to make Independent India. On this special occasion with provided 14 mobile vermicomposting unit to the 14 farmers of Bevinakopp, Bailhongal taluk to encourage them for production vermicompost. Similarly, 100 cashew seedlings were also provided to the farmers to promote cashew cultivation in the district. 4000 fingerlings were released at progressive farmers fields to to promote inland fisheries in the farm pond.



e. Kisan Gosthie

Dr. Nagesh Huilgol, Scientist (Animal Science) participated as Resource Person for Kisan Gosthie programme organised by ATMA, Savadatti on 24.08.2021 at Chikka Ulligeri village and addressed the farmers gathering about the importance of balanced nutrition in dairy animals. He also advised for adoption of integrated dairy management for sustainable and profitable dairy farming. A total of 25 farmers participated in the programme.



f. Parthenium awareness week

Parthenium awareness week was celebrated at KVK as well as at villages of KVK jurisdiction from 16–22, August 2021. Awareness has been created through group meetings, publishing articles in daily news paper, messages were sent to farmers through Whatsapp groups, pasting the posters at public places in the villages. At KVK instructional farm and farmers fields. Parthenium was uprooted and released mexican beetle for control of the weed. Farmers and school children’s were briefed about history of parthenium, how it affects human and animal health.



g. IGA activities

On the eve of auspicious occasion of Shravana Masa and festival vibes of Nagapanchami, KVK encouraged self help groups (SHG) members of Mahalaxmi ATMA Mahila Swa Sahaya Sangha, Bailwad village, Bailhongal taluk for taking up the venture of laddu preparation as a entrepreneurial activity. These members were trained by the KVK for hygienic practices, taking string consistency of jaggery for preparation of delicious laddus and addition of spice mixtures and garnishing with poppy seeds. The group was trained for preparation of North Karnataka popular sweet ‘Ladki Undi’ and ‘Khardani Undi’. Under the supervision of the KVK, they were able to produce 200 kg of laddus with a initial investment of Rs.20,000/-. The FSSAI license owned by the KVK was honoured to the SHG for establishment of the entrepreneurial activity. These laddus were sold as hot cake within span of 3 days at price of Rs. 180/kg and gained net profit of Rs. 16,000/- which has boost the will power of the group members to take up the venture for production of different types of laddus preferred by the local community.



h. VIP/ Dignitaries visit

Mr. Yair Eshel, Agriculture Attache, Embassy of #Israel visited KVK and discussed about different cropping system in the district and expressed to have a collaborative work in the field of water soluble fertilizer, drip irrigation system and precision farming for major crops of the district for the benefit of the farming community towards enhancing their productivity. During his visit, a presentation was made by Mrs. Sridevi B. Angadi, Senior Scientist & Head on ongoing activities of the KVK.



ICT activities

Sl.No.	Particulars	Nos.
1	Plant Protection measures, Inter cultivation, weather forecasting, availability and high yielding varieties of crops, Quality planting materials, land preparation, availability of technological products at KVK and livestock management	4

Editors: Sridevi Angadi, Scientist (Home Science), S.M. Warad, Scientist (Soil Science), Dr.S.S. Hiremath Scientist (Plant Protection), G.B. Vishwanath, Scientist (Agronomy), Praveen Yadahalli, Scientist (Horticulture), Dr. Nagesh Huilgol, Scientist (Animal Science)

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