PROGRESS REPORT OF SCIENTIFIC ADVISORY COMMITTEE MEETING
(April-2020 to March-2021)

Agenda item No. 01: Chairman's opening remarks about KVK followed by confirmation of the Proceedings of last SAC (10 min)

Agenda item No. 02: Action taken report on the previous SAC meeting (10 min)

Suggestion 01: KVK to introduce varieties suitable for climate change

Action taken

- Introduced JG-14 a chickpea variety suitable for late sowing, The results showed that, there was 18.55% q increase in yield per ha (13.10 vs 11.05 q/ha) over JG-11 with B:C ratio of 2.09 vs 1.76 in check.
- Demonstration on Dh-256 was conducted with an objective of introducing moisture stress tolerant variety, there was 23% yield increase over TMV-2 in the demo plot.
- Popularization of Cowpea as climate resilient crop has been spread in an area of 173 ha from 10 ha over three years. The demonstrations conducted by KVK revealed that around 40% increase in yield was obtained through DC-15 when compared to local variety. The farmers have produced seeds and are selling to neighboring farmers. There is demand for seeds
- Introduction of SSI technique in sugarcane as climate resilient technology.
- Popularization of sunflower as climate resilient crop has been spread in area of 16000 ha over three years.
- Introduction of new crop –Ajwain, Ajmer Ajwain-1 as crop suitable for climate change, drought tolerant crop.
- Evaluation of new sunflower hybrid RSFH-700

Suggestion 02: Promote the concept of organic farming among rural youth and train five youth From each village

Action taken:

- Under PKVY 25 farmers (20 ha) had been enrolled and trained on organic farming

Results of crops grown under PKVY during *Kharif* 2020

Name of Crops cultivated	Variety	Yield (q/ha)	Economics			
			Gross Returns (Rs/ha)	Cost of Cultivation (Rs/ha)	Net Returns (Rs/ha)	B:C ratio
Onion	Arkakalyan	57.9	231461.5	83528.8	147932.7	2.8
Greengram	Sel-4	12.5	106262.5	40000.0	66262.5	2.7
Sunflower	Ganga Kaveri	12.8	67077.8	24375.0	42702.8	2.8

Results of crops grown under PKVY during *Rabi* 2020

Name of Crops cultivated	Variety	Yield (q/ha)	Economics			
			Gross returns (Rs/ha)	Cost of cultivation (Rs/ha)	Net returns (Rs/ha)	B:C Ratio
Chickpea	JG-11	14.3	72871.2	30250.0	42621.2	2.4
Sorghum	M35-1	14.7	38820.0	21727.3	17092.7	1.8
Wheat	DWR-162	24.2	47729.2	31708.3	16020.8	1.5
Groundnut	TMV-2	21.3	112093.8	46250.0	65843.8	2.4
Sunflower	Ganga Kaveri	10.0	58850.0	20625.0	38225.0	2.9
Safflower	A-1	8.0	42616.0	20625.0	21991.0	2.1
Chilli	Bydagi	8.8	35875.0	31250.0	4625.0	1.1

Trainings conducted on organic agriculture

Sl. No.	Date	Title	No of farmers
1	09.03.2021	Vermiwash and vermicompost production	25
2	6-30.03.2021	Skill development training on organic grower	25
3	23.3.2021	Organic farming	28
4	24.03.2021	Vermicomposting technology	19
5	22.05.2021	Organic farming and liquid feritlizers	98
6	02.06.2021	Organic Certification process	101
7	02.06.2021	Organic production of turmeric	42
8	8-11.09.2021	Vermicomposting and organic farming	15
9	11.11.2021	Vermicomposting and organic farming	24
10	7.1.2021	Onsite production of organic inputs at Benakatti	28
		Total	**405**

- **Skill Development Trainings on Organic Grower Training**
  Agriculture Skill Council of India Sponsored Training
  Date: 06.03.2021 to 30.03.2021 (25 Days)
  No. of participants: 22
  Assessment: Completed on 22.4.2021

- **Swatchata Action Plan (SAP)**

1. Vermi composting- 5 demos
2. Vermiwash Preparation-5 demos
3. In-situ decomposition of Sugarcane trash using compost culture and waste decomposer
4. On and Off campus training on organic input preparation
5. Distribution of extension literature

Suggestion 3: Popularize drip irrigation, planting along the bunds

Action taken:

- In Ramathal drip irrigation project in collaboration with DMAC and Dept of Agriculture KVK is involved in popularization of drip irrigation.
- SSI techniques in sugarcane –Drip irrigation
- FFS in chilli-Drip irrigation

Suggestion 4: To participate in the soil health camps conducted by Rohini biotech

Action Taken:

Due to COVID-19 pandemic Physical soil health camps have not been conducted KVK has been working in association with Rohini Biotech for other activities.

Suggestion 5: To conduct more programme on Goat farming, organic farming and snail Management

Action taken:

Trainings on animal husbandry

S N	Date	Title	Thematic area	No of participants
1	3-8/3/2021	Sheep and goat rearing for rural youth	Animal husbandry	15
2	21.05.2021	Multilocation audio conferencing on Livestock production	Animal husbandry	35
3	29.05.2021	Scientific dairy management	Livestock production	75
4	1.06.2021	Clean milk production	Animal husbandry	52
5	09.11.2020	Implementation of FLD on creep ration Mangalagudda	Livestock production	10
6	16.1.2021	Feed and fodder management in dairy animals at Badagi	Animal husbandry	28
7	21.1.2021	Clean milk production at Navalgi	Dairying	22
8	10.2.2021	Clean milk production at Navalgi	Dairying	28
9	13.09.2021	Dairy management@Budihal	Dairy management	28
10	28-30.12.2021	Fish rearing training for 3 days sponsored by ICAR	Fish production	34

Trainings conducted on organic agriculture

Sl. No.	Date	Title	No of farmers
1	09.03.2021	Vermiwash and vermicompost production	25
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		Total	**405**

Suggestion 6: Conduct training on agriculture skill development to supplement farm income

Action taken:

- Skill training on organic farming for 22 farmers for 25 days during March 2021
- Skill training on Sheep and goat rearing 15 rural youth under STRY (MANAGE) during February 2021
- Skill training on Fish rearing for three days for 34 farmers during December, 2021

Impact: After undergoing training at KVK the following farmers/farm women have started sheep and goat rearing units and are still visiting KVK for further guidance

SL No.	Name	Age	Edn	Caste	Address	Ph. no
1	Mr. Gopal Naik	23	PUC	OBC	S/O Rangappa Naik, Marikatti, Tq: Mudhol, Dist: Bagalkote Pin:587313	9611712196
2	Mrs. Renuka N. Pujari	36	7th	OBC	C/o N.B. Pujari A/Post : Rampur RC Tq: Bagalkote Dist:Bagalkote, Pin:587207	8073235678
3	Mr. Holabasappa Umanabadi	23	B.Com.	OBC	S/o Parasappa Umanabadi Baragi, , Tq: Mudhol, Dist: Bagalkote Pin: 587313	7619500596
4	Mrs. Kavita M. Mokashi		10th	OBC	W/o Mahesh Mokashi, Ward no. 6, Mabusubani Darga Halepeth, Bagalkote, Pin: 587101	9845087754

Suggestion 7: For the outbreak of the diseases in Papaya, conduct a joint diagnostic survey Along with UHS and Dept. staff

Action taken:

Team consisting of

Dr. Basavarajappa M P Professor, Plant Pathology

Sri Arjun Sulagitti, Scientist Agril. Entomology

Sri S C Angadi, Sr. Technical Officer, KVK Bagalkot Visited on 18.11.2020 and suggested remedies

Suggestion 8: Popularize mechanized harvesting in sugarcane to overcome labour problems

Action taken:

Demonstration of mechanized harvesting of sugarcane revealed that,: The mechanized harvesting is 5 times efficient than manual harvesting and there is reduced dependency on labors who are being hired from neighboring states and facilitates timely harvesting.

Demonstrations were carried out at, Gangur village, Neerabudihal village, Jambagi K D

Suggestion 9: To prepare a folder on alternate cropping system and popularize among farmers

Action taken:

A folder on alternate cropping system has been published and circulated.

Suggestion 10: To popularize management practices of striga in sugarcane

Action taken:

All the trainings on sugarcane and group meetings were essentially focused on the striga Management and a folder has been published and circulated to farmers.

Suggestion 11: To conduct exclusive trainings on organic agriculture and IFS

Action taken

Trainings conducted on Integrated Farming system

S N	Date	Title	Type of farmers	Participants
1	28.12.2020	KSDA officials	Extension functionaries	27
2	2.1.2021	DAESI programme	Extension functionaries	35
3	22.1.2021	IFS training of rextrainees	farmers	35
4	30.1.2021	IFS and Animal husbandry	Farmers	12
5	18.2.2021	Integrated Farming System	Farmers from Mundgod	25

Trainings conducted on Organic agriculture

Sl. No.	Date	Title	Thematic Area*	Total
1	09.03.2021	Vermiwash and vermicompost production	Organic agriculture	25
2	06.03.2021 to 30.03.2021	Skill development training on organic grower	Organic grower	25
3	23.3.2021	Organic farming	Organic farming	28
4	24.03.2021	Vermicomposting technology	Organic farming	19
5	22.05.2021	Organic farming and liquid fertilizers	Organic farming	98
6	02.06.2021	Organic Certification process	Certification	101
7	02.06.2021	Organic production of turmeric	Crop production	42
8	08.11.2021 to 11.09.2021	Vermicomposting and organic farming	Organic agriculture	15
9	11.11.2021	Vermicomposting and organic farming	Organic agriculture	24
10	7.1.2021	Onsite production of organic inputs Benakatti	Organic agriculture	28

Activities planned under Swachata Action Plan (organic agriculture)

1. Vermi composting- 5 demos
2. Vermiwash Preparation-5 demos
3. In-situ decomposition of Sugarcane trash using compost culture and waste decomposer
4. On and Off campus training on organic input preparation
5. Distribution of extension literature

Suggestion 12: To popularize dry land horticulture and emphasize on the production of ber, fig, custard apple, sapota.

Action taken:

As per the suggestion arid horticulture block has been established in KVK.

Popularization of varieties suitable for arid horticulture through production and sale is under progress.

Suggestion 13: To analyze the impact of minimum two successful technologies

Action taken:

Three impact studies have been carried out to analyze the impact of technologies

Title	Activities to popularize	Impact on district economy
Onion variety Bhima Super enhances profitability of onion growers	FLD, Seed production and other extension activities	32,30,80,000/-
Pigeonpea TS-3R variety popularization in Bagalkot District	FLD, CFLD, Seed production	Rs. 15,16,40,000
Metarhizium anisopliae: A boon for eco-friendly management of root grub in sugarcane	Mass production of metarrhizium, Mass awareness campaigns, FLDs and OFTs	5.75 crores considering both direct and indirect impact

Suggestion 14: To give importance to inland fisheries

Action taken:

- In collaboration with ICICI KVK is involved in promoting inland fisheries in Jamakhandi
- The water samples have been analyzed to advise farmers to go for inland fisheries

Date	Title	Area	Beneficiaries	Total No
31.05.2021	Online training on Fisheries	Livestock production	Farmers	101
05.07.2021	Fish farmers day	Fisheries	Farmers	8
09.7.2021	Fish seeding	At KVK Bagalkote	KVK Demo	1
28-30.12.2021	Training on Fisheries	KVK Bagalkote	Farmers	34

- The following is the list of farmers who have consulted KVK for fish farming activity and have attended the training conducted on 28.12.2021, will be starting their entreprise

Sl. No.	Name of Farmer	Village/taluka	Phone no.
1.	Arjun Tippanna Galagali	Kainkatti/Badami	9972265795
2.	Pundalik Hosamani	Sulikeri/Badami	910842579
3.	Atheeq Daulathakole	Bagalkote/Bagalkote	9449447069
4.	Md. Shafi	Bagalkote/Bagalkote	8050076156
5.	Gurunath Vasappa Jadhav	Neelanagar/Bagalkote	9482817714
6.	Sunil Patil	Navanagar/Bagalkote	8123699874
7.	Prasanna Amarawathi	Navanagar/Bagalkote	9481402464
8.	Nagaraj Naganur	Sanganatti/Banahatti	9845299867
9.	Mahesh Madhukatti	Belur/Badami	8105744134
10.	Lokesh Bannigidad	Belur/Badami	7795817724
11.	Mahantesh Dalin	Amalikoppa/Hunagunda	9663633831

12.	Parasappa Achanur	Ganjihal/Hunagunda	9734880799
13.	Prabhu Devaravar	Navanagar/Bagalkote	9741730609
14.	Vasu Devalappa Kattimani	Shirur LT/Bagalkote	9483725408
15.	Vasu Doddamani	Shirur LT/Bagalkote	9480312008
16.	Manjunath Rathod	Shirur LT/Bagalkote	8296810347
17.	Dynaneshwar Mundinamani	Hanapur LT/Badami	9141225608
18.	Rajshekhar Goudar	Ilkal/Ilkal	9731696601
19.	Chandrashekhar Hanamasagar	Sulebhavi/Hunagunda	9538900058

Suggestions 15: To popularize high yielding varieties among Bajra and Millets

Action taken:

Introduction of high yielding variety of millets-Fox tail millets, Barnyard millets and little millets.

Parameters	Foxtail millet (DHFt-109-3)	Little millet (DHLm-14-1)	Barnyard millet (DHBm-93-2)	Farmer Practice Foxtail millet (HMT-100-1)
Yield (q/ha)	12.10	10.35	10.08	9.78
Fodder Yield (q/ha)	49.37	51.12	46.62	43.37
% increase	23.72	5.82	3.06	
B:C ratio	1.69	1.47	1.42	1.38

Farm trials on bajra were conducted, the details are as follows:

- Weed management in pearl millet+pigeonpea (2:1) intercropping system
- Varietal popularization of Bajra variety 2021-22, Ten farmers have been given seeds of VPMV-9 at Hunagund under the programme of varietal popularization
- Farm trial on Bajra variety 2021-22. Two farmers have been given seeds of VPMH-14 at Guledagudda under the programme of varietal popularization
- Farm trial on fertilizer management in Bajra implemented by KVK Bagalkote 2021-22, One farm trial has been implemented by KVK at Shigikeri village

Suggestion 16: To emphasize more on activities related to doubling of farmers income

Action taken:

Activities emphasized to boost farmers income through

1. Sheep and goat rearing trainings
2. Introduction of intercrop in sugarcane: coriander for enhanced income
3. Management of twister disease in onion to boost production
4. Demonstration of oilseeds-sunflower, safflower and groundnut in larger area,
5. Trash decomposition and integrated root grub management in sugarcane, SSI method
6. Five IFS training programmes have been conducted.
7. Documentation of success stories of 110 farmers whose income is doubled and presented

Suggestion 17: Demonstrate technologies on soil moisture conservation techniques

Action taken:

- Assessment of different compost cultures for decomposition of sugarcane trash
- In situ green manuring in Sugarcane
- In situ vermicomposting in sugarcane
- Promotion of waste decomposter, Go-kripamruth and mulching in various crops

Suggestion 18: To update the website of KVK regularly and include a kannada page

Action taken:

KVK Website is updated regularly, a total of around 25000 visits have been made to the website

Suggestion 19: To disseminate technologies related to weather forecasting

Action taken:

Status of DAMU from November 2020 - November 2021 (Status of AAS)

S.N.	Parameter	Numbers
1	No. of Blocks for which Agromet Advisory is Prepared	06
2	Number of Bulletins Prepared in Agro-DSS portal, uploaded in Agromet website and Disseminated through Media	99
3	Whether Bulletins are bilingual	Yes
4	Source of realized weather and crop information	UASD
5	No of FAPs Conducted	11

Suggestion 20: Information on internal lending, bank loan and crop insurance has to be Disseminated regularly

Action taken:

- KVK has been inviting the financial literacy wing in trainings also from NABARD,
- Crop insurance messages have been disseminated through whatsapp group
- A lecture on crop insurance was organised by the expert farmer on f world soil day
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Suggestions 21: To promote FPOs for branding, packing and marketing skills

Action taken :

- Two FPOs are to registered under Cooperative societies act 1959 during Dec. 2021
- Branding and labeling interventions are being carried for EDP farmers under ODOP-Jaggery.
- Value addition to jaggery and MOU with SBI Coimbatore has been carried out to purchase the technology on production of liquid jaggery.
- One identified entrepreneur is undergoing training on liquid jaggery to promote the technology in the district

Suggestion 22: To establish a model IFS at KVK Bagalkote

Action taken :

A Model has been established at KVK Bagalkot covering 20 demo units.

Suggestion 23: To popularize processing and marketing of turmeric

Action taken:

- Two FPOs have been registered under Cooperative societies act 1959 during Dec. 2021
- Branding and labelling interventions are being carried for EDP farmers under ODOP-Jaggery.
- Value addition to jaggery and MOU with SBI Coimbatore has been carried out to purchase the technology on production of liquid jaggery

- Jaggery Fest, Bagalkot organized at MBA college Bagalkote: On the eve of Farmers Day, Jaggery Fest was Organized by Zilla Panchayat Bagalkot, UASD, KAPPEC, Karnataka State Government, KSDA, KVK Bagalkot, UHS, Bagalkot at BVV Sangha's Institute of Business Management College, Vidyagiri, Bagalkot on 23.12.2021.

Suggestion 24: To disseminate knowledge regularly through radio, TV and popular articles

Action taken:

On radio: Everyday one message on season specific, crop related issues –BEC-Dhwani

1. BEC Dhwani- A total of 365 messages have been broadcasted
2. Audio Conferencing: 05 Talks

Topic of talk	Delivered by	Name of station
Vegetable seedling produciton techniques	Dr Airadevi	BEC Dhwani-11.01.2021
Coconut tree management in summer season	Dr Airadevi	BEC Dhwani-16.04.2021
Advanced cultivation practices in Banana	Dr Airadevi	BEC Dhwani-21.04.2021
Multilocation audio conference on onion	Dr. Dineshkumar	Reliance Foundation radio 20-5-2021
Multilocation audio conference on redgram	Dr. Dineshkumar	Reliance Foundation radio ,29-5-2021

Popular articles

Sl No	Authors	Title of article	Volume/issue and page no
1	M.R.Kammar and Siddappa Angadi	Krishiya Achara: Biochar	Vijayakarnataka 4.11.2020 Page 2 (Krishi vijaya)
2	Mahesh Haroli and Mouneshwari R Kammar	Gudugu mattu minchugala nikhar mahiti tiliyalu damini mobile app.	Krishi Kamadhenu. December 2020.P: 28-31
3	Arjun Sulagitti and Mouneshwari Kammar	Erejalavemba Jeevajala.	Krishi Kamadhenu. December 2020.P: 41-12
4	Airdevi P A, Kammar M.R. and Sudha S	Supta beejada ondu avalokan.	Krishi Kamadhenu December 2020. P: 32-36
5	Arjun R S and Kammar M R	Savayav krushiyalli sadhane madida shivkumar	Krishi Kamadhenu April 2021 P: 21-23

6	Kammar M R and Arjun R S	Alpa Bhumi svalpa neeralli samruddha Bele	Vijaya Karnataka 21, June 2021
7	Kammar M R and Arjun R S	Arab deshakke Bale, raitanige Bharjari adaya	Vijaya Karnataka 28 , June 2021
8	Arjun R S and Kammar M R	Bahu taligala Perala tota	Vijaya Karnataka 17 May 2021
9	Mouneshwari R Kammar	Bahu belegalinds sunita sabala	Vijaya Karnataka 25 october 2021
10	Mouneshwari R Kammar	Koodi Bali-krushiyondige khushiyannu gedda handigund kutumb	Krishi Kamadhenu December 2021 P: 35
11	Angadi A. P., Sampagavi S and Kumar B H	Kaitotada sasyagaalannu belesuv madhyamagalu	Krishi Kamadhenu May 2021 14(5) P; 21-24
12	Angadi A P and Balaganur V	Kalliyendu kadeganisadiri	Krishi Munnade July 2021 , 34(7): 25-26
13	Dr. Anil S. Patil and Dr. Venkanna Balaganur.	Januvarugalalli Vala Paravalambi Jiveegalu Appavave?	Krishi Munnade-34(2) februry-2021 pp 35-38
14	Dineshkumar sp and A H Biradar	Mungaru hangamige raitaru tayari	Vijayakarnataka, 23.06.2021
15	M R Kammar	Mannu tevansh soochak	Krishi Kamadhenu, May-June issue 14(5): 35-36
16	M R Kammar	Importance of pruning in turmeric	Vijayakarnataka 30.08.2021 Page 4

Agenda item No. 03: Overall progress report. Presentation by senior scientist and Head of KVK (20 Min)

General information of KVK:

1.1	Name and address of KVK with phone, fax and e-mail ID	ICAR-Krishi Vigyan Kendra Near Railway Station, Badami Road Bagalkote - 587 101 Ph: 08354 -223543 E-mail: kvkbgk@rediffmail.com
1.2	Name and address of host organization	University of Agricultural Sciences, Krishi Nagar, Dharwad-580 005, Ph: 0836-2447494, Fax: 091-0836-2748199, E-mail: deuasd@rediffmail.com
1.3	Year of sanction	2005
1.4	Website address of KVK and date of last update	www.kvkbagalkot.com, kvk.Bagalkot@icar.gov.in and date of last update on 15/01/2021

Staff position:

Sl.No.	Sanctioned post	Name of the incumbent	Discipline	Date of joining	Permanent/ Temporary
2.1	Senior Scientist & Head/PC	Dr. Mouneshwari R Kammar	Home Science	24.07.2017	Permanent
2.2	Scientist.	Dr. Dinesh Kumar S P	Agronomy	15-02-2017	Permanent
2.3	Scientist	Dr. Sudha S.	Plant Pathology	03-04-2017	Permanent
2.4	Scientist	Dr. Airadevi P Angadi	Horticulture	24-07-2017	Permanent
2.5	Scientist	Dr. Balaganur Venkanna	Animal Science	27-07-2019	Permanent
2.6	Scientist	Mr. Arjun Sulagitti	Ag. Entomology	03-07-2018	Permanent
2.7	Scientist	-	Home Science	-	-
2.8	Prog Asst (Lab Asst)	Mr. Siddappa C. Angadi	Agril. Extension	18-12-2008	Permanent
2.9	Prog. Asst(Comp)	-	-	-	-
2.10	Prog. Asst (Farm Manager)	-	-	-	-
2.11	Accountant/Supdt	Mr. F.C. Nadaf	-	08.05.2020	Permanent
2.12	Stenographer	-	-	-	-
2.13	Driver 1	Mr. Chandrashekar Makapur	Driver (LV)	07-02-2018	Permanent
2.14	Driver 2	Mr. Mahadeva V Pujari	Driver (HV)	27-07-2017	Permanent
2.15	Supporting staff 1	-	-	-	-
2.16	Supporting staff 2	Smt. Renuka Arawatagi	Farm Labour	7-10-2011	Permanent

a. Agriculture Scenario of the district

Bagalkot is a city situated in the northern part of the Indian state of Karnataka, Geographically ,it is located at the coordinates 16.180 N 75.70 E and situated along the banks of the rive Ghataprabha, It lies at an average elevation of 533 meters above sea level. It is the head quarter of Bagalkot district. It was previously under the administration of Bijapur district and in the year 1997, the new Bagalkot district has come into existence during 50the year of India's independence. The bifurcated Bagalkot district consists of six blocks namely Badami, Bagalkot, Bilgi, Hunagund, Jamakhandi and Mudhol.

The legendry Chalukya Dynasty once upon a time ruled Bagalkot distirct, in northern Karnataka, occupying a distance of 6593 sq. km. Bagalkote district is flanked by Bijapur district in the north, and Gadag district in the south, Raichur district lies towards east of Bagalkote and Koppa district towards south east along with Belgaum district towards west border the same.

Area:

Talukhs	**:**	06 (Badami, Bagalkot, Bilagi, Hunagund, Jamakhandi and Mudhol)
Villages	**:**	619
Gram panchayats	**:**	198
Raitha Sampark kendra's	**:**	18
Total population	**:**	1889752 Men-950111 Women-939641
Total geographical area	**:**	6575 km^2
Forest area (ha)	**:**	81126 ha
Net sown area (ha)	**:**	469859 ha
Rainfed area	**:**	279398 ha
Irrigated area	**:**	304569 ha
Average annual rainfall (mm)	**:**	579.0 mm
Total land holding (area)	**:**	517350 ha
Very small (< 2 ha)	**:**	89615 No.
Small-Medium (2-10 ha)	**:**	84788 No.
Large (Above 10 ha)	**:**	75606 No.
Live stock population (No.)	**:**	1646320
Poultry (No.)	**:**	1372186

b. Major farming systems/enterprises

Season	Cropping systems details
Kharif cropping area in shallow black soils and red soils	Pearl millet , Ground nut - bunch /spreading , Pigeonpea , Greengram , Bajra + Pigeonpea (2:1) Ground nut (bunch/ spreading) + Pigeonpea (4:2) , Sunflower
Cropping area in Rabi Season in Deep black soils and both Kharif & Rabi in medium deep black soils	Rabi sorghum , Safflower, Sunflower, Cotton, Horse gram, Rabi sorghum + Chickpea (2:1), Chickpea + Safflower (4:2)
Cropping with canal irrigation both in black soils and red soils Kharif	Maize-sugarcane, Sunflower-maize, Maize-Chickpea/wheat Maize-Groundnut, Groundnut-Sunflower/chickpea, Groundnut-sunflower, Bt cotton—, Pigeonpea---, Sugarcane-- , Sugarcane+Soybean—, Sunhemp(Greenmanuring) , sugarcane/wheat/maize
Cropping with canal irrigation both in black soils and red soils under delayed monsoon in catchment area	Maize-sugarcane, Sunflower-Maize, Maize-chickpea/wheat, Maize-Groundnut, Groundnut-sunflower, Cotton—, Pigeonpea—, Sugarcane-, Sugarcane+Soybean, Sunhemp-Sugarcane(Wheat/Maize)
Cropping with tank bed /borewel irrigation both in black and red soils	Maize Sugarcane - , Sunflower Maize , Maize-Chickpea, Maize Chickpea /Wheat , Maize Groundnut , Groundnut-Sunflower/chickpea, Groundnut-Sunflower, Bt Cotton, Pigeopea, Sugarcane, Sugarcane+Soybean, Sunhemp (green manuring)- Sugarcane / wheat / Maize
Cropping with bore-well / Open well	Ground nut-Sunflower/chickpea, Groundnut-Sunflower, Bt

irrigation both in black and red soils or any other sources (Insufficient groundwater recharge due to low rainfall)	Cotton---, Pigeonpea—, Sunflower-Maize, Maize-Groundnut, Maize-chickpea, Sunhemp (green manuring)- Sugarcane / wheat / Maize, Goat, Sheep, Cows and Buffaloes rearing
Horticulture Based Cropping System	Pomegranate based cropping system, Sapota based cropping system, Banana , Maize – Groundnut, Bajra-Groundnut, Maize-Sunflower, Soybean-Wheat, Turmeric, Onion-Chilli, Dairying , Goat/Sheep rearing, Agri. Horti, Agroforestry

c: Details of problems and thrust areas

SN	Names of the operational village	Crop/enterprise	Major problems identified	Thrust areas identified to tackle the problems	Nature of interventions implemented
1	Honnakatti, Benakatti	Chickpea	Lack of HYV Chickpea variety	New variety	OFT on Assessment of high yielding Chickpea variety BGD-111-1/Trainings/method demonstrations/Mass awareness campaigns
2	Mangalagudda	Chickpea	Non availability of labour for nipping, lack of awareness on nipping tools and techniques	Mechanization in nipping	OFT on Assessment of solar operated nipping machine with foliage collector and without foliage collecting option/Trainings/method demonstrations
3	Honnakatti	Sugarcane	Low organic matter in soil due totrash burning ,slow decomposition of trash High cost on fertilizers	Plant protection	OFT on Assessment of different compost Cultures in Sugarcane trash decomposition /Trainings/method demonstrations etc.
4	Honnakatti /Benakanwari	Sugarcane	Incidence of root grub in sugarcane (30-40%), Low cane yield	Plant protection	OFT on Assessment of bio-pesticides for root grub (Holotrichia spp.) management in sugarcane/Trainings/method demonstrations/Mass awareness campaigns
5	Navalgi and Hosur village	Dairying	Higher incidence of subclinical mastitis low milk quality and yield	Disease management	OFT on Assessment of pre and post milk test dipping practice for prevention of subclinical mastitis /Trainings/ Field visit/consultancies/demonstrations
6	Kagalgomba village	Safflower	Non availability of High yielding safflower varieties	Varietal assessment	OFT on Assessment of safflower varieties /Trainings/ Field visit/consultancies
7	Honnakatti	Onion	Incidence of	Plant	OFT on Assessment on

			twisting disease in Onion (25-30%), Low yield	protection	management practices for twisting disease in Onion/Trainings/Method demonstrations
8	Honnakatti	Sugarcane + coriander	Cultivation of sole sugarcane crop Non utilization of inter space	Horticulture Crop Production	OFT on Assessment of coriander varieties as intercrop in sugarcane/ Trainings/method demonstrations/Field day
9	Benakatti, Benakanavari	Groundnut	Lack of high yielding Groundnut variety for Rabi/ Summer	New variety	FLD on Demonstration of Dh-256 high yielding Groundnut variety/Trainings/method demonstrations/Mass awareness campaigns
10	Honnakatti, Benakatti, Devalapur	Chickpea	Lack of high yielding Chickpea variety for late sowing, after harvest of Pigeonpea/ Onion	Heat tolerant chickpea variety	FLD on Demonstration of heat tolerant Chickpea variety JG-14 for late sown condition under irrigation situation/Trainings/method demonstrations/Mass awareness campaigns
11	Bagalkot, Bilgi	Sorghum	Low yield due to infestation of rootgrubs	Plant protection	FLD on Root grub management in Onion /Trainings/method demonstrations/Mass awareness campaigns
12	Bagalkot, Bilgi	Sorghum	Poor yield due to leaf and whorl feeding of fall army worm	Plant protection	FLD on Fall armyworm Management in sorghum /Trainings/method demonstrations/Mass awareness campaigns
13	Mangalagudda	Sheep and goat rearing	Poor growth of lambs due to poor milk production in dams, High incidence of parasitic disease. Lack of awareness on creep feeding of lambs	Nutrition management	FLD on Creep ration feeding on growth of lambs/field visits/demonstrations/consultancies
14	Mangalagudda	Sheep and goat rearing	Higher incidence of subclinical mastitis low milk quality, low milk yield	Clean milk production	Demonstration of Clean Milk Production/field visits/demonstrations/consultancies
15	Mangalagudda/ Navalagi/Hosur	Nutrigarden	Micronutrient deficiencies, lack of consumption of micronutrient rich foods during slack season	Human Nutriton	Demonstration on nutrigarden /field visits/demonstrations/consultancies
16	Mangalguda	Chickpea	Incidence of wilt	Plant	FLD on Management of

			and root rot in chickpea (25-30%), Low yield	Protection	wilt and root rot in Chickpea/Trainings/Method demonstrations
17	Mangalguda	Groundnut	Incidence of stem rot and leaf miner (25-30%), Low yield	Plant Protection	FLD on Management of wilt and root rot in Chickpea/Trainings/Method demonstrations
18	Honnakatti	Watermelon	Incidence of wilt, powdery and downy mildew in watermelon (25-30%), Low yield	Plant Protection	FLD on Integrated disease management in watermelon/Trainings/Method demonstrations
19	Serur	Greengram	Incidence of Mungbean Yellow Mosaic Virus (MBYMV), Powdery mildew in greengram (25-30%), Low yield	Plant Protection	FLD on Integrated disease management in greengram/Trainings/Method demonstrations
20	Honnakatti /Benakanwari	Chilli	Non availability of High yielding varieties Pest and disease problem	Horticulture Crop Production	FLD on Assessment Demonstration of Chilli Hybrid (Arka Khyati) for higher yield Trainings/method demonstrations/Field day
21	Honnakatti, Mangalgudda	Ridge gourd	Non availability of High yielding varieties Pest and disease problem	Horticulture Crop Production	FLD on demonstration of high yieling Ridge gourd hybrid (Arka Vikram) /Trainings/method demonstrations/Field day
22	Honnakatti, Mangalgudda	Cluster bean	Lack of knowledge about improved cultural practices, Poor Nutrition, Disease, Pest & Low Yield	Horticulture Crop Production	FLD on Integrated Crop Management in cluster bean /Trainings/method demonstrations/Field day
23	Honnakatti, Mangalgudda	Radish	Low yield due to non availability of high yielding variety	Horticulture Crop Production	Demonstration of high yielding Radish variety Arka Nishant/ /Trainings/method demonstrations/Field day
24	Honnakatti, Mangalgudda	Banana	Micronutrient deficiencies Non availability of High yielding varieties	Horticulture Crop Production	FLD on Integrated Crop Management in banana /Trainings/method demonstrations/Field day

*Please mention OFT/FLD/Extension activities/or their combination

d. **Major outcomes of technology assessment**

OFT1: Assessment of high yielding Chickpea variety BGD-111-1

Outcome:

- New Chickpea variety **BGD-111-1** recorded higher **grain yield of 15.50 q/ha** which is followed by JAKI-9218 (14.75 q/ha) and NBeG-49 (14.42 q/ha).

- Chickpea variety BGD-111-1 recorded **higher gross income**, net income and B:C ratio **(Rs. 79050/ha, Rs. 46592/ha and 2.44, respectively)** as compared to JAKI-9218 (Rs. 75225/ha, Rs. 42767/ha and 2.32, respectively) and NBeG-49 (Rs. 73525/ha, Rs. 41067/ha and 2.27, respectively)..

OFT 2: Assessment of nipping techniques in chickpea

Outcome

- Terminal nipping after 40 DAS in chickpea has altered the crop canopy and given rise to increase in yield to the tune of 1.4 q additional yield/ acre.

- Solar operated machine without foliage collecting technique is suitable when compared to other device as the foliage is blown away with the wind

OFT 3: Assessment of safflower varieties

Outcome

- ISF 764 is high yielding, and thrips incidence is less when compared to Farmers' practice
- The grain appearance is smaller in ISF 764 than A-1

OFT 4: Assessment on management practices for twisting disease in onion

Outcome:

- Assessment on management practices for twisting disease in onion– Model for disease management developed by UAS Dharwad has given better results.
- There was decrease in disease incidence by 37.27 and increase in yield by 12.66 per cent

OFT 5: Assessment of bio-pesticides for root grub management in sugarcane

Outcome:

- 16.77 % increase in yield with the use of metarrhizium while 10.80% with the use of EPN Reduction in grub population from 1.85 to 1.32 and hence the BCR.Soil application of carbofuron/insecticides (chlorpyriphos) is reduced by using biopesticides.

- Assessment of bio-pesticides for root grub (*Holotrichia spp.*) management in sugarcane – VPN and Metarrhizium have equally competent in controlling root grub however Metarrhizium is easily available and economically affordable to farmers.

OFT 6: Assessment of different compost cultures for decomposition of sugarcane trash

Outcome:

- Assessment of different compost cultures for decomposition of sugarcane trash – Compost culture developed by UAS, Dharwad as given better results in terms of lesser number of days to decompost and increased soil organic carbon (0.01%) when compare to waste decomposer developed by NCOF, Ghaziabad.

OFT 7: Assessment of coriander varieties as intercrop in sugarcane

Outcome:

- Among Assessment of different coriander varieties– ACR-1 performed better in terms of herbage yield (12.88 t/ha) and early harvesting (29 days after sowing) compare to other coriander varieties
- With the intercrop of coriander in sugarcane farmer could got additional income of Rs. 22,000/ha within 3 months duration

OFT 8: Assessment of pre and post milk test dipping practice for prevention of subclinical Mastitis

Outcome

- Slight increase in fat % with Pre and post milking teat dipping and reduction in subclinical mastitis

e. Major outcomes of technology Demonstration (in bullet form only) 2020-21

FLD 1: Management of Fall armyworm in Rabi sorghum

Outcome:

- Two year pooled analysis of FAW management in sorghum was recorded higher yield,% infestation, gross income, net income and B:C ratio (12.65 q/ha, 13.52%, Rs. 54764/ha, Rs. 26713/ha and 2.05, respectively) as compared to check plot (10.69q/ha, 24.27%,Rs. 48574/ha, Rs. 26319/ha and 1.84 respectively).
- About 18% increase in yield and 11% reduction in % infestation of FAW was observed in demo.

FLD 2: Integrated Disease Management in Greengram

Outcome:

- FLD on Integrated Disease Management in Greengram developed by UAS Dharwad has given better results.
- There was decrease in disease incidence of leaf spot by 28.28 per cent, mungbean yellow mosaic virus by 26.56 and powdery mildew by 32.62 and there was increase in yield by 11.73 per cent.

FLD 3: Demonstration of heat tolerant Chickpea variety JG-14 for late sown condition under irrigation situation

Outcome:

- Two year pooled analysis of Chickpea variety JG-14 was recorded higher yield, gross income, net income and B:C ratio (13.10 q/ha, Rs. 65370/ha, Rs. 34073/ha and 2.09, respectively) as compared to JG-11 (11.05 q/ha, Rs. 55056/ha, Rs. 23758/ha and 1.76, respectively).
- The increase in the yield of Chickpea variety JG-14 was to the tune of 18.55 % over JG-11.

FLD 4: Management of wilt and root rot in chickpea

Outcome:

- FLD on Management of wilt and root rot in chickpea developed by UAS Dharwad has given better results.
- There was decrease in disease incidence wilt by 30.23 per cent and root rot by 31.87 and increase in yield by 10.45 per cent.

FLD 5: Demonstration of Dh-256 high yielding Groundnut variety

Outcome:

- Two year pooled analysis of Groundnut variety Dh-256 was recorded higher pod yield, gross income, net income and B:C ratio (28.28 q/ha, Rs. 137891/ha, Rs. 89339/ha and 2.84, respectively) as compared to TMV-2 (21.04 q/ha, Rs. 101284/ha, Rs. 52732/ha and 2.09, respectively).
- The increase in the pod yield of groundnut variety Dh-256 was to the tune of 35.53 % over TMV-2.

FLD 6: Management of stem rot and leaf miner in groundnut

Outcome:

- FLD on Management of stem rot and leaf miner in groundnut developed by UAS Dharwad has given better results.
- There was decrease in disease incidence stem rot by 32.75 per cent and leaf miner by 28.93 and increase in yield by 12.67 per cent .

FLD 7: Demonstration of ICM in Sunflower

Outcome:

- Demonstration of ICM in sunflower recorded higher yield, gross income, net income and B:C ratio (10.00 q/ha, Rs. 49667/ha, Rs. 28858/ha and 2.39, respectively) as compared to farmers practice (8.75 q/ha, Rs. 43417/ha, Rs. 16250/ha and 1.60, respectively).
- The increase in the yield of ICM in sunflower was to the tune of 14.40 % over farmers practice.

FLD 8: Root grub Management in Onion

Outcome:

- There was 13.50 % increase in yield with the use of metarhizium as compared with Farmers.
- Soil application of Fipronil granules /insecticides (chlorpyriphos) is reduced by using bio pesticides.

FLD 09: Demonstration of Chilli Hybrid (Arka Khyati) for higher yield

Outcome:

- Green chilli yield of Demo (Arka Khyati) was 24.5 t/ha compared Control variety (Sitara) which was 17. 6 t/ha.
- Leaf curl index was less in demo (Arka Khyati) – 1.2 compared to control (Sitara) – 2.5.

FLD 10: Demonstration of high yielding Ridge gourd hybrid

Outcome:

- Ridge gourd fruit yield of Demo (Arka Vikram) was 24.2 t/ha compared Control variety (Naga) which was 16. 8 t/ha.
- B: C ratio in demo (Arka Khyati) – 4.14 compared to control (Sitara) – 2.88

FLD 11: Integrated Crop Management in cluster bean

Outcome:

- Clusterbean pod fruit yield in Demo (Pusa Navbahar) was 9.02 t/ha compared Control variety (local) which was 6. 32 t/ha.
- B: C ratio in demo (ICM) – 3.28 compared to control – 2.29

FLD 12: Demonstration of high yielding Radish variety Arka Nishant

Outcome:

- Radish root yield in Demo (Arka Nishant) was 20.8 t/ha compared Control variety (local) which was 14.82 t/ha.
- B: C ratio in demo (Arka Nishant) – 2.7 compared to control – 1.83

FLD 13: Integrated Crop Management in Banana

Outcome:

- Banana fruit yield in Demo (ICM) was 42.7 t/ha compared Control (Farmer practice) which was 36.17 t/ha.
- B: C ratio in demo (ICM) – 3.16 compared to control – 2.29

FLD 14: Integrated Disease Management in Watermelon

Outcome:

- FLD on Integrated Disease Management in Watermelon of developed by UHS Bagalkote has given better results.
- There was decrease in disease incidence wilt 31.68 per cent, 31.48 per cent powdery mildew, 33.83 per cent downy mildew and increase in yield by 14.33 per cent

FLD 15: Management of rhizome rot in turmeric

Outcome:

- Reduction in disease incidence was 39.80% with increase in rhizome weight resulted in yield increase to the extent of 23.70%
- Use of bioagents in management of rhizome rot is effective in managing the disease

FLD 16: Energy and non-protein nitrogen source supplementation Through Urea molasses mineral block (UMMB) as licks

Outcome:

- Increase in milk yield upto 700ml- 1.5 liters/ animal/ day. Good quality milk with to standards

FLD 17: Demonstration of creep ration feeding on growth of lambs

Outcome:

- Net profit of Rs.11000 was added to farmers by the recommended practice with increase in body weight of lambs.
- Increase in body weight, increase in body length and decreased death were observed. Overall increase in the sale value.

FLD 18: Demonstration of Clean Milk Production

Outcome:

- Incidence of subclinical mastitis is 58% of quarters screened. Clean milk Production decrease the incidence of subclinical masitits, Increase SNF and Fat and Milk.

FLD 19: Demonstration of Nutrigarden for year round availability of farm families

Outcome:

- All the 62 families started cultivating varieties of vegetables for domestic consumption which includes, spinach, methi, amaranth, medicinal plants, other green leafy vegetables .
- Diversity in vegetable consumption was enhanced with the introduction of nutrigarden

CFLD 01: Special programmes (CFLD-NFSM-Pulses-Pigeon Pea)

Outcome:

- There was 15.96% increase in yield over local variety and 32.56% increase in net returns under this cluster Frontline Demonstration on pigeon pea

CFLD 02: Special programmes (CFLD-NFSM-Pulses- Chickpea)

Outcome:

- There was 17.25% increase in yield over local variety and 36.59% increase in net returns under this cluster Frontline Demonstration on Chickpea

CFLD 03: Special programmes (CFLD-NMOOP-Oilseeds-Groundnut)

Outcome:

- There was 11.00 % increase in yield over local variety and 30.90% increase in net returns under this cluster Frontline Demonstration on Groundnut

CFLD 04: Cluster Frontline Demonstration (CFLD) in Greengram

Outcome:

- Greengram variety DGGV-2 recorded higher yield, gross income, net income and B:C ratio (8.41 q/ha, Rs. 54659/ha, Rs. 31991/ha and 2.41, respectively) as compared to Sel-4 (7.20 q/ha, Rs. 46830/ha, Rs. 25195/ha and 2.16, respectively). The increase in the yield of greengram variety DGGV-2 was to the tune of 16.72 % over Sel-4.

CFLD 5: Cluster Frontline Demonstration (CFLD) in Sunflower

Outcome:

- Improved practice in sunflower was recorded higher yield, gross income, net income and B:C ratio (9.5 q/ha, Rs. 47600/ha, Rs.27852/ha and 2.41, respectively) as compared to Sel-4 (7.8 q/ha, Rs. 39190/ha, Rs. 16676/ha and 1.74, respectively). The increase in the yield of greengram variety DGGV-2 was to the tune of 21.46 % over farmers practice.

f. Details of capacity development programmes conducted

Category	Major Thematic Areas Covered	No. of Courses	Duration	No. of Participants
Farmers and farm women	Crop Production, IFS, IDM, IPM, Soil and Water Conservation, Organic Farming, Live stock production, Soil Health Management, Farm Mechanization, Value Addition, Human Nutrition, Apiculture, Natural Resource Management, Weather based Agriculture etc	131	One day duration each training	4801
Rural youth	PM Kisan programme live telecast, Animal Husbandry	05	One day duration each	60
Extension personnel	Soil Health Management, IFS, IPM, IDM, Climate Change, Weather based Agriculture etc	15	One day	584
Sponsored programmes	Integrated Farming System	13	02	292
Vocational programmes	1. Organic agriculture 2. Sheep and goat rearing 3. Fish rearing	03	25 06 03	75

g. Extension programmes conducted

Details of activities	No. of programmes	No. of participants
Celebration of Important Events Days Programs	40	695+370
Exhibitions	03	3420
Field days	11	299
Method demonstration	06	88
News coverage	31	-
Jaggery Fest	1	550
Popular articles	16	
Research articles	07	
Training manuals	02	
Folders	05	
Radio talks	09	
Scientist visit to farmers field	152	

h. Production and supply of technology products

i. Seeds produced at instructional farm of KVK

Crop	Class of seed	Variety	qty	Worth
Soybean	B/S	JS-335	47 q	376000
Groundnut	B/S	G2-52	15 q	180000
Groundnut	T/L	K-1812	11 q	80000
Groundnut	T/L	Dh-256	1.8 q	12000
Wheat	B/S	UAS- 304	13.24	59580
Wheat	F/S	UAS- 304	89 q	356000
Chickpea	F/S	BGD-111.1	14.5 q	116000
Greengram	B/S	DGGV-2	3.48	31320
Greengram	F/S	DGGV-2	8.40	65000

ii . Horticultural products

Sl. No.	Technology produce	Qty produced
1	Guava grafted plants (Lucknow- 49 & Arka Kiran)	696 no.
2	Drumstick seedling (Bhagya)	480 no.
3	Lime seedling (Kagzi lime)	468 no.
4	Curry leaf seedling (suvasini)	112 no.
5	Chilli seedlings	408 (tray)
6	Tomato seedlings	125 (tray)
7	Brinjal seedlings	71 (tray)

8	Watermelon seedlings	52 (tray)
9	Marigold seedlings	50 (tray)
10	Ornamental plants	333 no.
11	Medicinal & Aromatic plants	30 no.
12	Guava fruits	541 kg
13	Sapota fruits	150 kg
14	Amla fruits	60 kg
15	Vegetables	25 kg

iii. Production of Vermiculture unit

Sl No	Vermiculture unit	Qty
1	Vermicompost (q)	222.65
2	Vermiwash (lit)	735
3	Live earthworm(kg)	150.25

iv. Bio agents

Trichoderma	Pseudomonas	Metarhizium
651	218	657

v. Dairy unit

Sl No	Amount
Milk	91527
Goat	9375

vi. Seeds produced under seedhub pulses during 2020-21

Crop	Variety	Year of release	Target (q)	Production (q)	Procurement (q)	Class of Seed
Greengram	DGGV-2	2014	100	12.60	9.35	C/S
				37.10	27.85	F/S
Pigeonpea	TS-3R	2011	250	240.00	33.00	F/S
Chickpea	BGD-111-1	2018	100	16.00	14.50	C/S
			Total	**305.7**	**84.7**	

i. Convergence and linkages (Specify the activities and outcome)

a. Convergence and linkages with Public alliances

Date	Name of the programme	Activity carried out	Place	No. of Farmers	No. of Extension personnel
07.12.2020	Soil health card awareness programme	Lecture on "improved agronomic practices of Rabi crops and importance soil health"	Jalikatti (Ramdurga)	37	08
07.12.2020	Soil health card awareness programme	Lecture on "improved agronomic practices of Rabi crops and importance soil health" during soil health card awareness programme	Lakanayakana koppa (Ramdurga)	28	08
19.12.2020	FFS on silage	Demonstration of silage	Hosur village	25	06+26
14.12.2020	RAWE students crop seminar	Lectures	mannikatti	50	06
20.07.2021	Samagra Krishi Abhiyana	"Samagra Krishi Abhiyana Awareness and lectures" under the Jurisdiction of RSK-Surebana	Jalikatti, Kittur, Lakanayakanakoppa, Kallur, Mudenakoppa, Mullur, Kadalikoppa Rankalakoppa, Turanoor and Kilbanoor	More than 300	05
27.08.2021	Root grub management	Awareness campaign	Ujinikoppa	34	06
27.08.2021	Root grub management	Awareness campaign	Toranagatti	22	08
27.08.2021	Root grub management	Awareness campaign	Chunchanur	60	08
29.09.2021	Mass awareness campaign on root grub management	Lectures and demonstraiton	Bilagi	183	08
05.10.2021	Mass awareness camp about pest management in rabi crops	Awareness camp in collaboration with KSDA (ATMA)	Badami	130	04

b. Convergence and linkages with Private institutions

SN	Particulars	Activities
1	ICICI Foundation	Intervention in DFI villages are implemented by KVK and follow up is being done by ICICI Foundation since 2 years. 5 FLD's and 2 OFT's are implemented in collaboration with ICICI. Poshan Mah, training on sugarcane, turmeric and diagnostic field visit are conducted along with ICICI Foundation.
2	KFRC	Resource person for training s on Sheep and Goat rearing Dairy enterprise. These trainings are organized regularly @ 2-3 trainings/month. KVK is asight for an exposure visit for all trainings. So far more than 62 training have been conducted in last 5 years.
3	BEC, Dhwani	Voice message on weather fore cast given by KVK is desseminated regularly through BEC Dhwani 90.4 FM, a local radio station.
4	Will wood Chemicals PVT	Chemical testing programs on chilli, grapes are being under taken in the district with a financial assistance from Will wood Chemicals PVT.
5	Sarvodaya NGO	KVK jointly working in one of the DFI villages, adopted by Sarvodaya NGO. KVK is acting as knowledge resource centre for trainings and action plan preperation for this NGO.
6	E & Y, DMAC (Ramthal Drip Irrigation)	E & Y Company is waorking in the name of DMAC at Ramthal Drip Irrigation in Hunagund Taluk. KVK is acting as knowledge partner to guide the farmers in this area for introduction of new cropping system in drip irrigation area.
7	BEC - STEP Training Centre	KVK is acting as knowledge resource centre for trainings and action plan preparation for this institute.
8	Zuari, Coromandal and private companies	KVK Scientist are participating as resource persons for the trainings organized by these companies.
9	SELCO	SELCO is participating in training programmes organized by KVK to introduce solar energy based agriculture equipments.
10	FPO's of District	KVK is acting as knowledge partner for the FPO's established in the districts and as well as in other districts. So far 10 FPO's are in contact with KVK since last 3 years.
11	Garuda Agencies Chennai	Demonstration of spraying of chemicals with drone at KVK Bagalkot

c. Soil, water and plant analysis

Details	Samples analyzed	OFT, FLD and CFLD samples	Total samples	Amount generated
Soil Samples	455	196	651	233400/-
Water Samples	476			
Amount to be credited to KVK from OFT, FLD and CFLD upto Nov. 2021				60200/-
			Total	293600/

d. Human Resource development

Sl No	Title of the training	organizer	Date	Attended by
1	Fruit fly: Surviellance and Management	NIPHM, Hydrabad	07.12.2020 to 11.12.2021	Mr. Arjun R.S
2	Farm Journalism for effective transfer of technology	EEI, Hydrabad	15.06.2021 to 19.06.2021	Mr. Arjun R.S
3	Capacity Building in skill development for KVK of ATARI zone 11	ATARI, Bengaluru	17.07.2021	Mr. Arjun R.S Dr. Sudha S Dr. Airadevi Angadi
4	Integrated pest Management : A paradigm shift	NCIPM, New delhi	27.08.2021 to 28.09.2021	Mr. Arjun R.S
5	Advance in IPM strategies for impartant crops of karnataka, Keral	NCIPM, New delhi	21.10.2021 to 23.10.2021	Mr. Arjun R.S Dr. Sudha S
6	IIHR- technologies for doubling the farmer income	IIHR, Bengaluru	18.12.2021 to 19.12.2021	Mr. Arjun R.S Dr. Airadevi Angadi Dr. Sudha S
7	"Impact of water stress on crop productivity: its mitigation and adaptation strategies".	Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur, Bihar	24.11.2020 to 26.11.2020	Dr Dinesh Kumar S.P.
8	Agricultural Scientists Meet	CSIR	22.12.2020 to 25.12.2020	Dr Dinesh Kumar S.P.
9	Virtual Training: Maintenance Breeding in Field Crops	ICAR- IISS, Karnal	19.01.2021	Dr Dinesh Kumar S.P.
10	National Web conference on "Sustaining Pulse Production for Self Sufficiency and Nutritional Security (Feb, 9-11, 2021	IIPR Kanpur	09.02.2021 to 11.02.2021	Dr Dinesh Kumar S.P.
11	International conference on Soil and Water Resource Management (ICSWRM 2021)	MPUAT Udaipur	26.02.2021 to 27.02.2021	Dr Dinesh Kumar S.P.
12	Water Budgeting: An approach for Sustainable Water Resoures Management in Rajasthan	MPUAT Udaipur	21.06.2021	Dr Dinesh Kumar S.P.
13	Role of weed biology in improving weed management strategies	Indian Society of Weed Science and ICAR-DWR	22.06.2021	Dr Dinesh Kumar S.P.

14	Advance Statistical Data Analysis Using SPSS	Science Tech Institute, Luknow, UP India	21.09.2021 to 27.09.2021	Dr Dinesh Kumar S.P.
15	"Mechanized Weed Management in different field crops"	ICAR-Directorate of Weed Research, Jabalpur (MP)	01.11.2021 to 03.11.2021	Dr Dinesh Kumar S.P.
16	Artificial Intelligence for Modellig Time Series Data in Agriculture	S.V. Agricultural College, Tirupati	10-12-2021	Dr Dinesh Kumar S.P.
17	On-Farm Production of Bio-control agents and Bio-pesticides	NIPHM, Hyderabad	14-09-2020 to 18-09-2020	Dr. Sudha S Scientist (Plant Pathology)
18	Strengthening of KVK of ATARI zone 11	ATARI, Bengaluru	05.11.2020	Dr. Airadevi Angadi
19	On-line training Prog on Leadership Development for Women Scientists" from organized	ICAR-NAARM, Hyderabad	08.03.2021 to 10.03.2021	Dr. Airadevi Angadi
20	Online meeting of Interaction with stakeholders to discuss and activate the AEP related activities in pomegranate cluster districts of Karnataka	APEDA, Bengaluru	21.04.2021	Dr. Airadevi Angadi
21	'Market Linked Agriculture Reforms in Agricultural marketing' conducted collaboration with from.	by Extension Education Institute and MANAGE, Hyderabad	26.04.2021 to 29.04.2021	Dr. Airadevi Angadi

Agenda item No. 04: Proposed action plan in brief for the next year by KVK

Presentation by Senior scientist and Head of KVK (20 min)

Sl. No.	Names of the operational village	Crop/enterprise	Major problems identified	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented	Source of the technology
1	Bagalkote, Hungund	Pigeonpea (3 Demos)	Low yield	New pegionpea variety GRG-152	OFT-Assessment of new pegionpea variety GRG-152	UAS, Raichur
2	Mangalagudda, Benakatti	Groundnut (10 Demos)	Low yield	High yield new variety Kadiri Lepakshi (K-1812)	FLD-Demonstration of high yielding Groundnut variety Kadiri Lepakshi (K-1812)	ANGRAU, Guntur
3	Mangalagudda	Bajra (10 Demos)	Low yield due to poor nutrient and pest management	ICM in Bajra	FLD-Demonstration ICM in Bajra variety VPMV-9	UAS, Dharwad
4	Benakatti, Mangalagudda	Chickpea (10 Demos)	Heavy use of chemical inputs	Natural farming	FLD-Demonstration of natural farming in chickpea	UAS, Dharwad

5	Honnakatti, Benakatti, Benakanavari	Sugarcane (5 Demos)	Soil salinity, High input costs , monocropping in sugarcane	Sustainable Sugarcane Initiative(SSI) technology	FLD-Demonstration of Sustainable Sugarcane Initiative(SSI) technology	ICRISAT, Hyderabad
6	Mangalgudda and Huvanur	Sugarcane	Low organic matter in soil due to trash burning ,slow decomposition of trash High cost on fertilizers	Plant protection	OFT on Assessment of different compost Cultures in Sugarcane trash decomposition /Trainings/method demonstrations etc. (For Second year)	NCOFG
7	Amblikopaa, Benakanawari and Gorabal	Gauva	Infestation of fruit flies in guava (10-20%)	Plant protection	OFT on Assessment of different traps for management of fruit fly in Guava/ trainings and Method demonstartions	NBAIR, Bengaluru
8	Bagalakote and	Pigeonpea	Disease Incidence of sterility mosaic (10-20%)	Plant protection	OFT on assessment of Management of sterility mosaic disease in pigeonpea / trainings and Method demonstrations	UAS,Dharwad
9	Bagalkote and Badami	Onion	Low yield of onion due to Foliar diseases and twisting disease	Plant protection	FLD on Management of foliar diseases/Twisting disease in Onion/Trainings	UAS,Dharwad
10	Honnakatti	Betelvine	Low yield of betel vine due to Wilt disease (25-30%)	Plant protection	FLD on Management of quick wilt in Betel vine /Trainings/method demonstrations.	IIHR Bengaluru
11	Honnakatti	Chickpea	Low yield due rust disease(25%-30%)	Plant protection	FLD on Management of rust disease in Chickpea /Trainings/method demonstrations.	UAS,Dharwad
12	Bagalkote and Badami	Wheat		Plant protection	FLD on Integrated Disease Management in Wheat /Trainings	UAS, Dharwad
13	Honnakatti and Managalgudda	Sugarcane	Incidence of root grub in sugarcane (30-35%) Low yield	Plant protection	FLD on Integrated Root grub management in sugarcane /Trainings/method demonstrations/Mass awareness campaigns	ICAR VPKAS, Almora (Vivekanand parvatiya krishi anusandhan sansthan) & UASD
14	Bagalkot, Bilgi	Sorghum	Low yield due to infestation of rootgrubs	Plant protection	FLD on Root grub management in Onion /Trainings/method demonstrations/Mass awareness campaigns	UAS,Dharwad

*Please mention the OFT/FLD /Training/Extension activities /or their combination

e. Revolving fund activities

a. Revolving fund of KVK Bagalkote

Year	Opening balance As on March 31	Expenditure	Receipts	Closing balance
2020-21	4422931.70	2620287.56	1785286.00	3587930.14
2021-22	3587930.14	1344293.00	1500407.00	**3744044.76 As on 31.12.2021**

Component wise contribution to revolving fund(November 2020-December 2021)

SL No.	Details	Amount generated
1	Vermicompost unit	285670
2	Farm receipts	865946
3	Dairy, Goat, Azolla	100902
4	Hostel rent	127700
5	Bio agents	301110
6	Soil and water testing lab	293600
7	Horticulture nursery	109125
	Total	2084053

Action plan for utilization of Revolving Fund of KVK Bagalkote

SN	Details	No.	Amount (Rs)
1	Installation of new pipeline system for irrigation	50 ac	600000
2	Mini tractor with implements	One set	600000
3	Solar lights	Four no	100000
4	BOD	one	100000
5	Repair and renovations of building		500000
6	Partition of SWTL lab for AAS		200000
7	Labour		150000
8	POL		200000
9	Tractor tyre replacement		80000
10	Elevated goat shed		500000
11	Vegetable special prepartion unit		300000
12	Miscellaneous		200000
	Total		**3530000**

b. Revolving fund status of Pulse Seed hub

Year	Opening Balance (1st April)	Fund Utilized	Fund Earned (by seeds sale)	Closing Balance (31st March,)	Remarks (if any)
2021-22	78.55980	06.88362	08.81316	80.48933	Seed yet be processed and procured Upto end of March, 2022

Seed Production Action plan for 2022-23 under pulse seed hub

Crop	Variety	Year of release	Target (q)	Class of Seed
Greengram	DGGV-2	2014	100	C/S
Pigeonpea	TS-3R	2011	250	C/S
Chickpea	BGD-111-1	2018	100	C/S

Budget utilized for -2021-22 as on 31.12.2021

SNo	Particulars	DAC	Budget	Released	Expenditure	Balance
1	Pay and Allowance		15000000	11695124	8964566	2730558
2	Travelling Allowances	121	100000	100000	27345	72655
3	Office Contingencies (Stationary, telephone, postage,& other expenses)	200	250000	250000	188003	61997
4	EDP (Nos.) Innovative Activities	300	30000	30000	12929	17071
5	Maintenance of Vehicle & POL	301	250000	250000	185149	64851
6	Soil & Plant Health Clinic (Soil & Water Testing & Issue of SHCs)	337	50000	50000	49285	715
7	Library	467	10000	10000	3500	6500
8	Training Materials (Posters, charts, demo materials)	570	75000	75000	16348	58562
9	Field Demonstration (FLD)	571	300000	300000	199213	100787
10	Extension Activities	579	100000	100000	65393	34607
11	Meals/Refreshment for Trainees	580	100000	100000	63750	36250
12	Training to Extension functionaries	581	50000	50000	-	50000
13	On Farm Testing (OFT)	584	100000	100000	41930	58070
14	Maintenance of Building	884	100000	100000	67004	32996
	Total		**16515000**	**13210124**	**9884415**	**3325619**

Agenda item No. 05: Interaction and discussions with stakeholder for finalizing the KVK deliverables in terms of OFT/FLD/CD/Extension programmes for the coming year based on the felt needs, senior scientist and Head need to collect information from members regarding suggestions for improvement of technical programme and its implementation by KVK in below format (90 min)

Commodity	Problems identified, its extent and areas affected	Type of action required (OFT/FLD/CD/Extension programmes) and suggestions	Source of technology (SAU/ICAR)

Agenda Item No. 06: Any other agenda with the permission from the chairman (10 min)