ICAR-KRISHI VIGYAN KENDRA, GADAG

ANNUAL REPORT -2022-23

(FOR THE PERIOD FROM 01 APRIL, 2022 TO 31 MARCH 2023)





ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti Gadag district, Karnataka State Pincode: 582205

Website: https://kvkgadag.icar.gov.in/ E-mail: kvk.Gadag@icar.gov.in/ Host Organisation: Agricultural Science Foundation, Hulkoti



PART I - GENERALINFORMATION ABOUT THE KVK

1.1. Name and address of KVK withphone, fax and e-mail

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, Gadag dist.	(08372)289606 /289325	-	kvk.Gadag@icar.gov.in kvkhulkoti@gmail.com	www.kvkgadag.icar.gov.in

1.2 .Name and address of host organization with phone, fax and e-mail

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Address	Telephor	ne	E mail	Web Address				
	Office	Fax						
Agricultural Science Foundation, Hulkoti	(08372) 289069	-	hulkotiasf@gmail.com	www.asf.ind.in				
Gadag dist.								

1.3. Name of the Programme Coordinator with phone & mobile No

Name		Telephone / Contact					
	Residence	Residence Mobile Email					
Dr. L.G. Hiregoudar	-	9448358772	laxs1961@gmail.com				
		8073642868					

1.4. Year of sanction: 1985

1.5. Staff position as on 31 March 2023

SI. No.	Sanctio ned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualificati on (for PC, SMS and Prog. Asstt.)	Pay Level	Basic pay	Date of joining KVK	Permanent /Temporary	Categ ory (SC/S T/ OBC/ Others)
1	Head/Se nior Scientist	Dr. L.G. Hiregoudar	Programme Coordinator	M	Crop Physiology	M.Sc (Agri), PhD	L-14	218200	05.09.1992	Р	OBC
2	Scientist/ SMS	Dr. Sudha V. Mankani	Subject Matter Specialist	F	Home Science	M.H.Sc, PhD	L-12	119300	26.06.1995	Р	ОВС
3	Scientist/ SMS	Mr. N.H. Bhandi	Subject Matter Specialist	М	Soil Science	M.Sc (Agri)	L-11	96600	01.06.2005	Р	OBC
4	Scientist/ SMS	Mrs. Hemavati R.H.	Subject Matter Specialist	F	Horticulture	M.Sc (Horti)	L-10	61300	14.02.2020	Р	ОВС
5	Scientist/ SMS	Dr. Vinayak Niranjan	Subject Matter Specialist	М	Ag. Engineering	M.Tech(Ag .Eng), PhD	L-10	57800	11.10.2021	Р	ОВС
6	Scientist/ SMS	VACANT	Subject Matter Specialist		Agronomy						
7	Scientist/ SMS	VACANT	Subject Matter Specialist		Ag. Extension						
8	Programm e Assistant (Lab Tech.)	Dr. B.M. Murgod	Programme Assistant	М	Animal Science	B.V. Sc	L-7	60400	25.06.2007	Р	OBC

SI. No.	Sanctio ned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualificati on (for PC, SMS and Prog. Asstt.)	Pay Level	Basic pay	Date of joining KVK	Permanent /Temporary	Categ ory (SC/S T/ OBC/ Others)
9	Program me Assistant (Compute r)	Mrs. Lalita S.Asuti	Computer Programmer	F	-	M.Sc (IT)	L-7	66000	01.06.2005	Р	ОВС
10	Program me Assistant/ Farm Manager	Mr. Suresh L. Halemani	Farm Manager	М	1	B.Sc (Agri.)	L-7	53600	01.02.2011	Р	ОВС
11	Assistant	Mr. M.B. Jakkanago udra	Assistant	M	-	M.Com	L-7	60400	25.06.2007	Р	OBC
12	Jr. Stenogra pher	Mr. T.K. Sai Swaroop Rao	Jr. Stenograph er	М	-	SSC & Certificate in Stenograp hy	L-4	30500	15.12.2016	Р	ОВС
13	Driver - 1	Mr. N.L. Hadapad	Driver-Cum- Mechanic	М	-	7th Std.	L-4	46100	03.09.1992	Р	ОВС
14	Driver - 2	Mr. G.D. Madivalar	Driver-Cum- Mechanic	М	-	7th Std.	L-4	41000	26.06.1995	Р	OBC
15	SS-2	Mrs. Savita V. Karadani	Field Assistant	F	-	PUC	L-1	19700	14.02.2020	Р	OBC
15	SS-1	VACANT	Field Assistant								

1.6. Total land with KVK (in ha):28.0 ha

S.	Item	Area (ha)
No.		
1	Under Buildings	1.5
2.	Under Demonstration Units	0.5
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	14.0
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

		Source			Sta	ge		
S.		of		Complete)		Incomp	lete
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in lakhs)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1996	800	33.46	-	1	-
2.	Farmers Hostel	ICAR	1997	550	17.26	-	-	-
3.	Staff Quarters 1	ICAR	31-03-2006	400	25.82	-	-	-
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1. Dairy	ICAR	31-03-1997	50	4.00	-	-	-
	2. Sheep & goat	ICAR	31-03-1997	50	2.63	-	-	-
	Organic input production unit	ICAR	31-03-2011	67	3.00			
5	Fencing	ICAR	31-03-2011		8.00			
6	Rain Water harvesting system	ICAR	31-03-2007	-	10.00	-	-	-
7	Threshing floor	ICAR	31-03-2011	278	2.00	-	-	-
8	Farm godown	ICAR	31-03-2011	70	3.00	-	-	-
9	Vermi Compost	DDB	31-03-2002	100	3.50	-	-	-
10	Vehicle & implement shed	ICAR	31-03-2011	80	3.00	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs. in lakhs)	Total kms. Run	Present status
Jeep (Mahindra Bolero)	2009	6.00	218412	Placed order for vehicle under replacement of vehicle
Tractor	2003	5.00	12460Hrs	Needs replacement
Motor cycle - I	2004	0.40	76728	Needs replacement
Motor cycle - II	2009	0.50	56632	Good

C) Lab Equipment & AV aids

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs. in lakhs)	Present status
Computer	2008	1	1.00	Good
Digital Amplifier with Public	2013	1	0.36	Good
Address System				
OHP	2004	1	0.25	Good

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs. in lakhs)	Present status
Motorised projection screen	2013	1	0.21	Good
White board	2013	1	0.14	Good
LED display board	2013	1	0.10	Good
Lap top Computer	2007	1	0.53	Not Good
LCD	2007	1	0.45	Good
Ceramic black board	2007	1	0.12	Good
Lab equipments for dairy and goatery	2011	1	0.50	Good
Generator	2011	1	1.00	Good
EPBAX system	2011	1	0.50	Good
Equipments of Plant health diagnostic unit	2011	1	10.00	Good
Laptop computer	2016-17	1	0.589	Good
Desktop computer	2016-17	1	0.25	Good
Printer	2016-17	1	0.181	Good
Copier	2016-17	1	0.595	Good
Projector	2016-17	1	0.48	Good
Digital camera	2016-17	1	0.242	Good
Pico projector	2016-17	1	0.145	Good
Amplifier	2016-17	1	0.055	Good
Class room chairs	2016-17	1	0.21	Good
File cabin	2016-17	1	0.20	Good
Hostel furniture	2016-17	1	0.59	Good
Projector Screen	2020-21	1	0.24	Good
Laptop	2020-21	1	0.79	Good
Desktop	2020-21	1	0.44	Good
Office furniture	2020-21	1	1.02	Good
Desktop (All in one)	2022	1	1.26	Good
Laptop	2022	1	0.62	Good
Printer (All in one)	2022	1	0.30	Good

D)Farm equipment and implements

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Hipro lab model gin machine	2006	1	0.70	Good
Seed delinting machine	2006	1	0.18	Good
Cotton seed sorter	2007	1	0.50	Good
Seed treatment drum	2007	1	0.40	Good

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Rotary weeder	2009	1	0.84	Good
Laser guided land leveler	2011	1	3.89	Good
Power tiller	2011	1	2.72	Good
Rotavator	2022	1	1.23	Good
Tamarind de-seeder	2022	1	1.11	Good

1.8. Details of SAC meeting organised

Date	Number of Participants	Salient Recommendations	Action taken	Remark
22- 02- 2023	19	Introduce more perennial fruits and vegetables in Nutri Garden. Conduct trainings on vegetable and fruit processing.	These recommendati ons are	s, if any
		Include cucumber variety released by IIHR under Vegetable Cafeteria.	included in the Action Plan of 2023-24	
		Impart trainings on IFS in order to enable farmers to get good income and give thrust to animal components also	2020-24	
		Give thrust to Intercropping and Mixed cropping during trainings.		
		Train farmers to take up seed treatment in Redgram crop to reduce incidence of wilt problem in the district		
		Pure Byadagi variety seed production in Chilli crop be encouraged among farmers so as to make pure Byadagi variety seeds available to villagers.		
		Conduct group meeting / crop seminar in Mango crop to overcome pest problem involving Subject Experts.		
		Advise farmers for going to buffaloe rearing as buffaloe milk fetches good market price and thus farmers can get good returns.		
		Advise farmers for planting fodder trees on bunds so as to feed animals, sheep and goat even during off-seasons.		
		Take up Paraquat spray for shedding of leaves in Greengram before mechanical harvesting to ease the harvesting operation and also suggested to go for ecofriendly treatment with high salt concentrate in place of chemical i.e Paraquat.		
		Take up method demonstrations of seed treatment in Greengram seeds before sowing to manage Yellow Vein Mosaic Virus.		
		Promote BJV-44 variety of Rabi Sorghum through demonstrations.		
		Advise farmers to go for Ridges and Furrows in Chilli crop in case of excess rainfall during the season.		
		Advise farmers to go for wider spacing (row to row) in Bengalgram crop for good mechanical harvesting.		

PART II - DETAILS OF DISTRICT

2.1Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise					
Rainfed situation	Rainfed situation					
1	Agricultural crops + Dairy enterprise					
2	Agricultural crops + Horticultural crops					
3	Agriculture + Horticulture + Dairy enterprise					
Irrigated situation	1					
1	Agriculture + Dairy enterprise					
2	Agriculture + Horticulture + Dairy enterprise					

2.2Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics			
1	Northern Dry Zone-3 and Region-2 of the state	This zone comprises of Gadag, Ron, Mundaragi, Gajendragad and Naragund blocks. Rainfall ranges from 450-600 mm with 30-35 rainy days mainly from June – September months. Maximum temperature ranges from 36-40° c. This zone is drought prone. Kharif crops grown: Greengram, Groundnut, Onion, Bt. Cotton Chilli, Sunflower, Maize etc Rabi crops grown: Bengalgram, Rabi Sorghum, wheat, sunflower etc			
2	Northern Semi Transitional Zone-8 and Region-4 of the state	This zone comprises of Shirahattiand Laxmeshwar blocks. Average rainfa is 619 mm. Gets rainfall from both South-West and North-East mansoons. Kharif crops grown: Greengram, Sorghum, Bt-cotton, Groundnut, Sunflower, Millets, Maize, Onion, Chillietc Rabi crops grown: Rabi Sorghum, Sunflower, Bengal gram, Wheat etc			

2.3 Soil type/s

2.3	Son type/s						
S. No	Soil type	Characteristics	Area in ha				
1	Very shallow red gravelly loam soils	Less water holding capacity with less runoff and high infiltration rate,	26,625				
2	Shallow red gravelly mixed with deep black soils	Less water holding capacity with moderate runoff and high infiltration rate. It contains high sand percent.	10,659				
3	Medium deep red clayey soils Moderate water holding capacity with less runoff and moderate infiltration rate. It contains high clay percent.						
4	Medium deep red gravelly clay soils	Moderate water holding capacity with less runoff and high infiltration rate. It contains high clay percent.	63,163				
5	Deep red gravelly clay soils	High water holding capacity with less runoff and less infiltration rate. It contains high clay percent.	8,290				
6	Medium deep black clayey soils	Moderate water holding capacity with high runoff and less infiltration	1,50,117				
7	Deep black clayey soils	More water holding capacity with low infiltration rate of water & clay content is more than 35 percent	67,444				
8	Deep black calcareous clayey soils	More water holding capacity with low infiltration rate and high runoff. It contains more percent of Calcium	92,238				
9	Deep alluvial black clayey soils	More water holding capacity with low infiltration rate and high run off.	17,088				
10	Deep alluvial clayey soils (salt affected in patches)	More water holding capacity, less infiltration rate and high run off affects the seed germination	1,053				
		Total	4,61,887				

2.4. Area, Production and Productivity of major crops cultivated in the district (Reference year: 2022-23)

SI. No	Crop	Area (ha)	Production (Tons)	Productivity(Kg /ha)
	Cereals			
1	Maize	113100	489625	4329
2	Rabi Sorghum	76846	54471	709
3	Wheat (Irrigated)	19250	37500	1948
4	Paddy (Irrigated)	4300	20500	4767
	Pulses			
4	Greengram	125000	96000	768
5	Bengalgram	150000	149000	993
6	Redgram	3373	2150	637
	Oilseeds			
7	Groundnut	44560	84400	1894
8	Sunflower	28300	45400	1604
9	Safflower	5600	3300	589
	Commercial crops			
9	Bt. Cotton	28300	146970	5193
10	Onion	29671	343420	11.5 tonns
12	Dry chillies	15102	72489	480

Source: Department of Agriculture, Gadag - 2022-23

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
April, 2022	58.0	37.42	23.95	47.65
May, 2022	160.0	33.88	22.65	70.00
June, 2022	96.0	29.38	21.88	81.34
July, 2022	124.7	27.13	21.53	88.21
August, 2022	143.1	27.18	21.03	88.71
September, 2022	218.4	27.91	20.78	87.02
October,2022	164.1	26.80	19.07	85.85
November, 2022	1.2	26.64	17.26	85.67
December, 2022	14.0	27.05	16.43	82.86
January, 2023	0.0	30.56	15.49	61.60
February, 2023	0.0	34.50	17.27	42.60
March, 2023	0.0	37.37	21.41	37.13

2.6. Production and Productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	24153	25968 Lit. of milk/day	5.22 Kg/day
Indigenous	118502	45944 Lit of milk/day	2.40 Kg/day
Buffalo	60989	64088 Lit. of milk/day	2.80 Kg/day
Sheep			
Crossbred	335		
Indigenous	258712	158 tons/year (meat)	15 Kg/animal
Goats	106353	134 tons/year (meat)	16 Kg/animal
Pigs			
Crossbred	557		
Indigenous	6012		
Rabbits	341		
Dogs	16711		
Others	311		
Poultry birds (egg production)	156275	72 lakh/year	100 per year

Source: Gadag District Statistical Report-FY 2018-19

Note: The data for the year 2022 is not available at District Statics Office / Office of Deputy Directory of AH & VS 2.7 District profile has been **Updated** for 2022 : Yes (Latest available data is uploaded)

2.8 Details of Operational area / Villages

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
1	Gadag	Asundi	One Year	Maize	 Low yield due to cultivation of Maize as a sole crop Imbalanced nutrition Incidence of Army worm Drudgery during threshing and winnowing of Maize Incidence of Turcicum leaf blight and Bacterial stalk rot High labour requirement for harvesting of maize 	 FLD on ICM practices in Maize FLD on Maize + Redgram intercropping Demonstration ofself propelled maize harvester Trainings on ICM practices in maize Trainings on use of machineries in maize cultivation Supply of literature&Field day
				Greengram	 Low yield due to use of local variety Low yield due to incidence of Powdery mildew and Pod borer Seed shattering problem during harvesting in local variety China Moong Moisture stress due to long dry spells in Kharif 	 OFT of Greengram varieties for higher productivity FLD on ICM practices in Greengram FLD on Compartmental Bund Former Training on ICM in Greengram Supply of literature Field day
				Spreading Groundnut	 Low productivity in existing local varieties Imbalanced nutrition Incidence of leaf minor and leaf spot 	 OFT on improved varieties of spreading groundnut Trainings on ICM practices in Spreading groundnut Supply of relevant literature Field day
				Bt. Cotton	 Incidence of Pink bollworm Incidence of Leaf reddening Incidence of sucking pests 	 Training on use of Splat pheromone technique to control pink bollworms with method demonstration Training on ICM practices in cotton Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Bengalgram	 Low yield due to cultivation of local varieties Low yield due to incidence of pod borer Incidence of Wilt and Rust Low yields due to moisture stress 	 FLD on ICM practices in Bengalgram Training on ICM practices in Bengalgram Supply of literature Field day FLD on solar nipping machine FLD on compartmental bund former Trainings on use of machineries in chickpea cultivation Field day
				Rabi Sorghum	 Low productivity due to use of local variety Incidence of shoot fly and stem borer Incidence of smut diseases Problem of lodging in existing variety 	 FLD on ICM practices in Rabi Sorghum Training on ICM practices in Rabi Sorghum Supply of literature Field day
				Summer groundnut operation	 Low yield due to use of local varieties Incidence of collar rot and root grub Drudgery of in manual 	 FLD on ICM in Summer Groundnut Training on ICM practices in summer groundnut Field Day Supply of literature OFT on mechanical harvesting of
					harvestingLow income due to high labour cost	 summer groundnut Trainings on use of machineries in groundnut cultivation
				Vegetable crops	 Low income due to cultivation of local varieties Application of imbalanced fertilizers 	 FLD on Vegetable Cafeteria (Ridgegourd, Radish, Spinach and Dolichos Bean) Assessment of high yielding okra hybrids for higher productivity

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Red Chilli	 Non-availability of quality and pure seeds of Byadgi Dabbi Lack of proper knowledge on ICM practices resulting in poor productivity and quality with high incidence of pest and diseases Improper post-harvest management (Drying & storage of chilli and its powder) 	 Trainings on ICM in vegetable crops Supply of literature Field day FLD on ICM in Chilli crop FLD on drying of Red chillies in Solar Drier Assessment of Shelf Life of Chilli powder Assessment of packaging methods for chilli powder storage Training on ICM Supply of relevant literature Farm advisory services Rendering Kisan Mobile Advisory Services to farmers Field day Seed production
				Onion	 Imbalanced nutrition application without soil testing Low productivity in existing variety Bellary Red onion Low keeping quality of bulbs in existing variety High incidence of thrips & purple blotch High incidence of weeds High labour requirement in detopping of harvested onion crop 	 FLD on introduction of Bhima Super variety along with ICM practices Trainings on ICM in onion crop Seed production activities with identified seed farmers for supply of quality seeds of Bhima Super variety in village Supply of relevant literature Field day
				Banana	Less market priceNo value addition	Training on Bakaahu products
				Milch cattle	Low productivity of milk due to non-availability of green fodder	

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					throughout the year.	 Training on scientific management of milch cattle Supply of literature Field visit Mobile advisory services Field day Animal health camps in collaboration with Department of Animal Husbandry
				Nutrition and health	Less consumption of fruits and vegetables	
				PHT in Chilli	Unhygienic way of drying of Red Chillies	 FLD on solar drying of Red Chillies Training on use of solar dryer for drying of chillies
				Grain storage	Incidence of stored grain pest	 FLD on demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
				Drudgery	Drudgery in cleaning & grading or grains Less market price due to non- grading of grains	

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Organic input		Training
				production	importance of organic inputs	Supply of literature
					among farm women	•
				Borewell	Decreased ground water level and less water availability for	Training on recharge of ground water through borewell
					irrigation	 Field visits to demonstration units of artificial recharge of ground water through borewell Supply of literature
2	Mundaragi	Halligudi	One Year	Greengram	Low yield due to use of local varieties	FLD on ICM practices in Greengram
					Incidence of Leaf spot and Powdery mildewIncidence of Yellow Mosaic	Training on ICM practices in GreengramFLD on Compartmental Bund
					Virus and Leaf spot Moisture stress due to long dry spells in Kharif	FormerSupply of literatureField day
				Bengalgram	Low yield due to cultivation of local varieties	FLD on ICM practices in Bengalgram
					 Low yield due to incidence of pod borer 	
					 Incidence of Wilt and Rust 	Field day
						Supply of literature
					Reduced yield due to moisture stress	FLD on compartmental bund former
						FLD on solar nipping machine
						Trainings on use of machineries in chickpea cultivation
				Safflower	Low productivity due to cultivation of local variety	OFT on Assessment of Annigeri 2020 and ISF-764 varieties in
					Incidence of sucking pests Incidence of Consula hards	Safflower crop Training on ICM practices in
					Incidence of Capsule borerIncidence of Alternaria leaf spot	Training on ICM practices in Safflower

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
						Supply of literatureField Day
				Rabi Sorghum	 Low productivity due to use of local variety Incidence of shoot fly and stem borer Incidence of smut diseases Problem of lodging in existing variety 	 FLD on ICM practices in Rabi Sorghum Training on ICM practices in Rabi Sorghum Supply of literature Field day
				Nutri cereal Foxtail millet	Low productivity in existing local variety	 FLD on ICM practices in Nutri cereal Foxtail millet variety DHFt-109-3 Trainings Supply of literature & Field day
				Bio-fortified Pearl millet	Long dry spells result in low yields in majority of the Kharif crops, hence introducing biofortified and drought resistant pearl millet	FLD on ICM practices in bio- fortified Pearl millet variety VPMV-9
				Sunflower	Incidence of Necrosis Incidence of Red headed caterpillar (RHHC)	Training on ICM practices in Sunflower Supply of literature
				Red Chilli	Non-availability of quality and pure seeds of Byadgi Dabbi Lack of proper knowledge on ICM practices resulting in poor productivity and quality with high incidence of pest and diseases	 FLD on ICM in Chilli crop Training on ICM Supply of relevant literature Farm advisory services Rendering Kisan Mobile Advisory Services to farmers Field day
				Onion	Low income due to cultivation of local varieties	FLD on introduction of Bhima Super variety along with ICM

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Imbalanced nutrition without soil testing Low keeping quality bulbs in existing variety High incidence of thrips & purple blotch High incidence of weeds High labour requirement in detopping of harvested onion crop 	
				Rabi crops	Non profitability in existing Rabi crops due to moisture stress during Rabi Season	• FLD on introduction of
				Rabi crops	Non profitability in existing Rabi crops due to moisture stress during Rabi Season	 FLD on introduction of Ajawain crop for higher income and drought mitigation Supply of relevant literature Field day
				Milch cattle	Low productivity of milk due to non-availability of green fodder throughout the year.	
				Sheep	Low body weight in lambs	Training on scientific management of sheep
				Goat	Low body weight in kids	Training on scientific management of goats
				Nutrition and health	Less consumption of fruits and vegetables	FLD on Nutri GardenTraining on balanced diet and nutrition

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
						 Training on healthy foods for healthy life Training on importance of millets in diet Field day
				Grain storage	Incidence of stored grain pest	 FLD on demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
				Drudgery	grains Less market price due to non- grading of grains	 Demonstration on spiral separator on Greengram, Bengalgram, Rabi Sorghum etc. UV protected aprons for farm activities
				Organic input production	 Lack of awareness on importance of organic inputs among farm women 	TrainingSupply of literature
3	Laxmeshwar	Akkigund	One Year	Maize	 Low yield due to cultivation of Maize as a sole crop Imbalanced nutrition Incidence of Army worm Drudgery during threshing and winnowing of Maize Incidence of Turcicum leaf blight and Bacterial stalk rot High labour requirement for harvesting of maize 	 FLD on ICM practices in Maize FLD on Maize + Redgram intercropping Demonstration ofself propelled maize harvester Trainings on ICM practices in maize Trainings on use of machineries in maize cultivation Supply of literature& field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Spreading groundnut	 Low productivity in existing local varieties Imbalanced nutrition Incidence of leaf minor and leaf spot 	 OFT on improved varieties of spreading groundnut Trainings on ICM practices in Spreading groundnut Supply of relevant literature
				Bt. Cotton	 Incidence of pink bollworm Problem of leaf reddening Incidence of sucking pests 	 Training on use of Splat pheromone technique to control pink bollworm and method demonstration Training on ICM practices in cotton
					Drudgery of operation in existing spraying methods	 OFT on assessment of different spraying equipment Trainings on use of machineries in Bt. Cotton cultivation
				Greengram	 Low yield due to use of local varieties Incidence of Powdery mildew Incidence of Yellow Mosaic Virus and Leaf spot 	 FLD on ICM practices in Greengram Training on ICM practices in Greengram Supply of literature Field day
				Blackgram	 Low yield due to use of local varieties Incidence of Powdery mildew Incidence of pod borer 	 OFT of high yielding varieties of Blackgram Training on ICM practices in Blackgram Supply of literature
				Bengalgram	 Low yield due to cultivation of local varieties Low yield due to incidence of pod borer Incidence of Wilt and Rust 	OFT on assessment of high yielding varieties

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Wheat	 Low productivity due to use of local varieties Incidence of termites and stem borer Incidence of rust and leaf spot 	Training on ICM practices in WheatSupply of literature
				Rabi Sorghum	Incidence of Shoot fly and Stem borer Incidence of Smut disease	 FLD on ICM practices in Rabi Sorghum Training on ICM practices in Rabi Sorghum Supply of literature Field day
				Nutri cereal Foxtail millet	Low productivity in existing local variety	 FLD on ICM practices in Nutri cereal Foxtail millet variety DHFt-109-3 Trainings Supply of literature & Field day
				Rabi crops	Non profitability in existing farming system due to moisture stress during Rabi season	Ashwagandha crop for higher income and drought mitigation • Supply of relevant literature
				Borewell	Decreased ground water level and less water availability for irrigation	 Training on recharge of ground water through borewell Field visits to demonstration units of artificial recharge of ground water through borewell Supply of literature
				Milch cattle	Low productivity of milk due to non-availability of green fodder throughout the year.	 FLD on fodder cafeteria and nutrition in milch cattle Training on scientific management of milch cattle Supply of literature Field visit Mobile advisory services Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
						Animal health camps in collaboration with Department of Animal Husbandry
				Goat	Low body weight in kids	Training on scientific management of goats
				Nutrition and health	Less consumption of fruits and vegetables	 FLD on Nutri Garden Training on balanced diet and nutrition Training on healthy foods for healthy life Training on importance of millets in diet Field day
				Grain storage	Incidence of stored grain pest	 FLD on demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
				Drudgery	Drudgery in cleaning & grading of grains Less market price due to non- grading of grains	 Demonstration on spiral separator on Greengram, Bengalgram, Rabi Sorghum etc. UV protected aprons for farm activities
				Organic input production	Lack of awareness on importance of organic inputs among farm women	TrainingSupply of literatureField day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
4	Naragund	Muganur	One Year	Maize	 Low productivity due to imbalanced nutrition Incidence of Armyworm Problem of leaf reddening Incidence of Downey mildew 	 FLD on ICM practices in Maize Training on ICM practices in maize Supply of literature Field day
				Greengram	 Low yield due to use of local varieties Incidence of Powdery mildew Incidence of Yellow Mosaic Virus and Leaf spot 	 FLD on ICM practices in Greengram Training on ICM practices in Greengram Supply of literature Field day
				Blackgram	 Low yield due to use of local varieties Incidence of Powdery mildew Incidence of pod borer 	 OFT on high yielding varieties of Blackgram Training on ICM practices in Blackgram Supply of literature
				Wheat	 Low productivity due to use of local varieties Incidence of stem borer Incidence of rust and leaf spot 	Training on ICM practices in wheatSupply of literature
				Bengalgram	 Low yield due to cultivation of local varieties Low yield due to incidence of pod borer Incidence of Wilt and Rust Non profitability in existing farming system due to moisture stress Deterioration of soil physical properties due to unscientific use of machineries Reduced Water Use Efficiency 	 OFT on assessment of high yielding varieties in Bengalgram crop OFT on conservation agriculture practices FLD on ICM practices in Bengalgram FLD on Solar nipping machine Training on ICM practices in Bengalgram Field day Supply of literature

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Rabi Sorghum	Incidence of Shoot fly and Stem borer Incidence of Smut disease	 FLD on ICM practices in Rabi Sorghum Training on ICM practices in Rabi Sorghum Supply of literature Field day
				Safflower	 Low productivity due to cultivation of local variety Incidence of sucking pests Incidence of Capsule borer Incidence of Alternaria leaf spot 	 OFT on Assessment of Annigeri 2020 and ISF-764 varieties in Safflower crop Training on ICM practices in Safflower Supply of literature Field Day
				Red Chilli	 Non-availability of quality and pure seeds of Byadgi Dabbi Lack of proper knowledge on ICM practices resulting in poor productivity and quality with high incidence of pest and diseases Unhygienic way of drying of Red Chillies 	 FLD on ICM in Chilli crop FLD on solar drying of Red Chillies Training on use of solar dryer for drying of chillies Training on ICM Supply of relevant literature Farm advisory services Field day Seed production activities with identified seed farmers
				Onion	Low productivity due to imbalanced nutrition Low productivity due to cultivation of low yielding variety Double Red Incidence of thrips reduces the yields	FLD on introduction of Bhima Super variety along with ICM

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
				Milch cattle	Low productivity of milk due to non-availability of green fodder throughout the year.	 Training on scientific management of milch cattle Supply of literature Mobile advisory services
				Drudgery	Drudgery in cleaning & grading of grains Less market price due to non- grading of grains	 Demonstration on spiral separator on Greengram, Bengalgram, Rabi Sorghum etc. UV protected aprons for farm activities
				Nutrition and health	Less consumption of millets, fruits and vegetables in daily diet	 FLD on Nutri Garden Training on health and nutrition, importance of millets in diet Field day
				Grain storage	Incidence of stored grain pest	 FLD on demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
				Dicoccum wheat	Nutritional importance and its value addition	Training on nutritional importance and its value addition

2.9 Priority thrust areas

S.	Thrust area
No	
1	Soil fertility management through production and application of bio-manures
2	Promotion of intercropping systems in Maize and Bt.Cotton crops
3	Promotion of JAKI-9218 & BGD-111-01 varieties of Bengalgram
4	Promotion of SPV-2217 variety of Rabi Sorghum
5	Promotion of nutri-farms
6	Popularisation of drudgery reduction equipments
7	Post harvest technologies
8	Livestock nutrition for higher milk productivity

PART III - TECHNICAL ACHIEVEMENTS

3.A. Target and Achievements of mandatory activities

	0	FT			FLD				
	1				2				
0	FTs (No.)	Far	FI	LDs (No.)	Farmers (No.)				
Target Achievement		Target	Achievement	Target	Achievement	Target	Achievement		
9	9	33	33	20	20	312	312		

	Training (Farme	ers/farm wo	men)		Training (Rural youth)			
		3		Programmes (No.) Porticipants (No.)				
Co	Courses (No.) Participants (No.)			Progra	ammes (No.)	Participants (No.)		
Target	· · · · · · · · · · · · · · · · · · ·		Achievement	Target	Achievement	Target	Achievement	
130	131	4000	4791	10	14	300	357	

	Training (Exter	sion perso	onnel)		Training (sponsored)
		5				6	
Co	urses (No.)	Parti	cipants (No.)	Progr	ammes (No.)	Parti	cipants (No.)
Target	Achievement	Target Achievement		Target	Achievement	Target	Achievement
25	31	800 1160		60	66	2300	2380

	Training (Vocational)			Extension I	Programme	S
		7				8	
Cou	ırses (No.)	Partic	cipants (No.)	Progr	ammes (No.)	Partio	cipants (No.)
Target	Achievement Target Achievement		Achievement	Target	Achievement	Target	Achievement
10	13	300 379		450	484	30000	34325

Seed Pro	oduction (Q)	Planting m	naterial (Nos.)
	9		10
Target	Achievement	Target	Achievement
70	83.522	40000	49390

Livest	ock, poultry strai	ns and fing	erlings (No.)		Bio-prod	ucts (Kg)	
	1	1			1	2	
	Target	Ach	nievement		Target	Acl	nievement
	4		4		15500		15674
Se	oil, water, plant a including (nd manure mobile kits			Mobile agro adv	isories pro	vided
	1	3			1	4	
San	nples (No.)	Fari	mers (No.)		s including text, pice (No.)	Far	mers (No.)
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
740	750	1500	1585	50	58	21000	42452

3.B1. Abstract of interventions undertaken

								Interven	itions					
											Supply of		Sup	oly of bio oducts
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)		Supply of seeds (Qtl.)	plantin g materia Is (No.)	Supply of live- stock (No.)	No.	Kg
1	Varietal demonstra tion	Rabi Sorghum	Low productivity in exiting M-35-1 variety	-	Demonstra tion of SPV-2217 variety in Rabi Sorghum crop	2	-	-	6	3	-	-	-	10
2	ICM	Maize		-	ICM in Maize	2	1	-	8	-	-	-	-	-
3	Post harvest technology	Maize	Drudgery of operation involved in manual cob harvesting		Demonstra tion of self propelled Maize harvester	3	-	-	4	-	-	-	-	-
4	Intercroppi ng system	Maize+ Redgram	Low income due to sole crop	-	Maize+ Redgram (4:2) intercroppi ng system	1	-	-	5	1.5 Qtls (Redgram)	0	0	3	20
5	Varietal Demonstr ation	Foxtail Millet	Low productivity due to cultivation of local variety	-	Demonstra tion of nutri cereal crop foxtail millet with high yielding variety	2	-	-	2	0.75	-	-	-	-
6	Varietal Demonstr ation	Pearl Millet		-	Introductio n of bio- fortified	1	-	-	2	0.06	-	-	2	1.2

								Interver	ntions					
						Number	Number				Supply of	Supply	pr	ply of bio oducts
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	of Training (farmers)	of Training (Youths)	Number of Training (extension personnel)	activities	Supply of seeds (Qtl.)	plantin g materia Is (No.)	of live- stock (No.)	No.	Kg
					and drought resistant pearl millet									
7	Varietal Assessme nt	Greengram	Low productivity due to cultivation of local variety	Assessme nt of high yielding varieties of Greengra m	-	2	-	-	2	0.5	-	-	1	2
8	Varietal Demonstr ation	Greengram	Low productivity due to cultivation of local variety	-	Demonstra tion of DGGV-2 variety in Greengra m crop	2	-	-	4	1.25	-	1	2	10
9	Varietal Assessme nt	Blackgram	Low productivity due to cultivation of local variety	Assessme nt of Production potential of different Blackgram varieties under rainfed condition	-	2	-	-	4	0.7	-	-	2	2
10	Varietal Assessme nt	Bengalgram	Productivity of JAKI- 9218 variety is low under irrigated	Assessme nt of potential productivit y of DBGV-	-	4	-	-	5	4.0	-	-	-	1.5

								Interver	ntions					
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	activities	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live- stock (No.)	nr	ply of bio oducts Kg
			condition	204, NBeG-47 and NBeG-49 varieties										
11	Conservat ion agriculture practice	Bengalgram	Non profitability due to moisture stress, deterioration of soil physical properties due to repeated use of machineries especially Rotavators& reduced water application efficiency	Assessme nt of conservati on agriculture practice for higher productivit y in Chickpea preceeded with Maize crop	-	3	-	1	8	0.3	-	-		-
12	ICM	Bengalgram	Low yield in existing local varieties	-	Demonstra tion of JAKI-9218 vareity of Bengalgra m crop	4	-	-	7	0.5	-	-	-	65

				Interventions Supply Supply of bio										
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	activities	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live- stock (No.)	nr	ply of bio oducts Kg
13	Low Productivity	Bengalgram	Low productivity due to moisture stress	-	Demonstra tion of tractor operated bund former in Bengalgra m crop	2	-	-	5	-	-	-	-	-
14	Drudgery reduction	Bengalgram	High labour and time consumptio n in hand nipping method	-	Demonstra tion of solar nipping machine in Bengalgra m crop	3	-	-	8	-	-	-	-	-
15	Varietal Assessme nt	Spreading Groundnut	Productivity of existing local varieties is very less under rainfed condition	Assessmen t of Spreading Groundnut varieties for higher productivity	-	2	-	-	6	1.8	-		-	-
16	Varietal assessme nt	Safflower	Low productivity due to cultivation of local variety	Assessmen t of different Safflower varieties for higher productivity	-	2	-	-	5	0.63	-	-	1	-
17	ICM	Safflower	Low productivity due to cultivation	-	Demonstra tion of ICM practices in high	3	-	-	4	0.86	-	-	-	-

								Interver	ntions					
						Number	Number	Number of			Supply	Supply	pr	oly of bio oducts
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	of Training (farmers)	of Training (Youths)	Training (extension personnel)	activities	Supply of seeds (Qtl.)	plantin g materia Is (No.)	of live- stock (No.)	No.	Kg
			of local variety		yielding ISF-764 variety of Safflower									
18	Integrated Crop Managem ent	Onion	Low income due to cultivation of local varieties Double red & Bellary red	-	Demonstra tion of ICM in Red onion variety Bheema Super	8	-	-	10	0.25	-	1	-	-
19	Integrated Crop managem ent in Chilli	Red Chilli (Byadagi Dabbi)	Non-availability of quality and pure seeds of Byadagi Dabbi, high incidence of sucking pests leading to murda complex disease & anthracnos e disease Lack of proper knowledge on ICM	-	Integrated Crop Managem ent ByadagiCh illi	9	-	-	9	0.14	-	-	-	-

								Interven	itions					
						Number	Number	Number of			Supply of	Supply	pr	oly of bio oducts
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	of Training (farmers)	of Training (Youths)	Number of Training (extension personnel)	(No.)	Supply of seeds (Qtl.)	plantin g materia Is (No.)	Supply of live- stock (No.)	No.	Kg
20	Varietal Assessme	Okra	practices resulting in poor productivity and quality Improper post- harvest manageme nt Existing hybrids are	Assessme nt of Okra										
	nt		low yielding and resulting in low income	Hybrids for higher productivit y	-	4	-	-	10	0.06	-	-	-	-
21	Varietal demonstra tion	Vegetable Crop Cafeteria	Low productivity and income due to non-availability of improved vegetable varieties and less profit as farmers grow any of the vegetable crop	-	ICM in Vegetable crop cafeteria	5	-	-	10	0.04 Qtls: Ridgegourd seeds (Arka Prasana variety), 0.4Qtls: Dolichos bean seeds(Arka Amogh variety), 0.03Qtls:Spi nach seeds (Arka Anupam variety)&	-	•	-	-

								Interver	ntions					
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live- stock (No.)	nr	ply of bio oducts Kg
										0.01Qtls: Radish seeds(Arka Nishant variety)				
22		Ashwagan dha	Non profitability in existing cropping pattern due to vagaries of Monsoon and lack of crop diversificati on in field crops resulting in income insecurity to the farmers	-	Introduction of Ashwagand ha crop		-	-	5	0.4	-	-	-	
23		Ajwain	Non profitability in existing cropping pattern due to vagaries of Monsoon and lack of crop	-	Introductio n of Ajwain crop	2	-	-	3	0.1	-	-	-	-

								Interver	ntions					
						Number	Number				Supply of	Supply	pr	ply of bio oducts
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	of Training (farmers)	of Training (Youths)	Number of Training (extension personnel)	activities	Supply of seeds (Qtl.)	plantin g materia Is (No.)	of live- stock (No.)	No.	Kg
			diversificati on in field crops resulting in income insecurity to the farmers											
24	Health & Nutrition	Nutrition Garden	Lack of awareness on Nutri Garden & less consumptio n of fruits and vegetables	-	Nutri Garden	10	1	3	15	10 Kg	200	-	-	1025
25	Post harvest technology	Solar Dryer	Unhygenic way of drying of Red Chillies	-	Demonstra tion of Solar Dryer	2	-	-	5	-	-	-	-	-
26	Grain storage	Super grain bags	Incidence of stored pest	-	Demonstra iton of Super grain bags	1	-	-	1	-	-	-	-	-
27	Farm Machineri es	Bt. Cotton	 Incidence of pests, especiall y white flies and thrips Incidence of 	Assessme nt of different spraying equipment for effective pest	-	2	-	-	3	-	-	-	-	-

				Interventions											
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	(No.)	Supply of seeds (Qtl.)	Supply of plantin g materia Is (No.)	Supply of live- stock (No.)	nr	ply of bio oducts Kg	
			disease especiall y Angular leaf spot Drudgery of operation in existing spraying methods	managem ent in Bt. Cotton											
28	Farm Machineri es and Drudgery Reduction	Onion	Drudgery of operation in manual detopping of harvested onions	-	Demonstra tion of Battery Operated Onion Detopper (Under Demonstra tion of ICM practices in Red onion variety Bhima Super)	2	-	-	3	-	-	-	-	-	
29	Nutrition Managem ent in dairy animals	Fodder production	Low productivity of milk in CB cow due to Non- cultivation of	-	Demonstra tion of Fodder Production	1	12	2	15	1.05	40931	-	-	-	

	Thrust area					Interventions									
S. No		Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	(No.)	Supply of seeds (Qtl.)	Supply of plantin g materia Is (No.)	Supply of live- stock (No.)	pr	ply of bio oducts Kg	
			perennial fodder and grass species												

3.B2. Details of technology used during reporting period

S.				No. of programmes conducted							
No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Extension activities)				
1	2	3	4	5	6	7	8				
1	Demonstration of SPV-2217 variety in Rabi Sorghum crop	UAS, Dharwad	Rabi Sorghum	1	40	2	6				
2	ICM in Maize	UAS, Dharwad	Maize	0	20	2	8				
3	Demonstration of self propelled Maize harvester	Kissan Kraft	Maize	-	3	3	4				
4	Maize + Redgram intercropping system	UAS, Dharwad	Maize + Redgram	1	6	1	5				
5	Demonstration of nutri cereal crop foxtail millet with high yielding variety DHFt-109-3	UAS, Dharwad	Foxtail Millet	-	25	2	2				
6	Introduction of bio-fortified and drought resistant pearl millet VPMV-9	UAS, Dharwad	Pearl Millet	-	3	1	2				
7	Assessment of high yielding varieties of Greengram • DGGV-2 • DGGV-7	UAS, Dharwad	Greengram	3	-	2	2				
8	Demonstration of DGGV-2 variety in Greengram crop (ICM practices)	UAS, Dharwad	Greengram	-	25	2	4				

					No. of programmes conducted							
S. No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Extension activities)					
9	Assessment of Production potential of different Blackgram varieties under rainfed condition • DBGV-5 • BDU-12	UAS, Dharwad UAS, Raichur	Blackgram	5	-	2	5					
10	Assessment of potential productivity of DBGV-204, NBeG-47 and NBeG-49 varieties	UAS, Dharwad PJTSAU, Hyderabad	Bengalgram	5	1	4	5					
11	Assessment of conservation agriculture practice for higher productivity in Chickpea preceeded with Maize crop	PAU, Ludhiana	Bengalgram	3	-	3	1					
12	Demonstration of JAKI-9218 vareity of Bengalgram crop	UAS, Dharwad	Bengalgram		25	4	7					
13	Demonstration of tractor operated bund former in Bengalgram crop	UAS, Raichur	Bengalgram	-	10	2	5					
14	Demonstration of solar nipping machine in Bengalgram crop	UAS, Raichur	Bengalgram	-	10	3	8					
15	Assessment of Spreading Groundnut varieties for higher productivity	UAS, Dharwad JAU, Gujarat	Spreading Groundnut	3	-	2	6					
16	Assessment of different Safflower varieties for higherproductivity under rainfed condition	ICAR-IIOR, Hyderabad & UAS, Dharwad	Safflower	5	-	2	5					
17	Demonstration of ICM practices in high yielding ISF-764 variety of Safflower	ICAR-IIOR, Hyderabad	Safflower	-	25	2	5					
18	ICM in Red onion variety Bheema Super	UHS Bagalkot and ICAR- DOGR, Pune	Red Onion	-	25	8	10					
19	ICM in ByadagiChilli	ICAR- IIHR, Bengaluru and UHS, Bagalkot	Red chilli	-	14	9	9					
20	Assessment of Okra Hybrids for higher productivity	ICAR-IIHR, Bengaluru	Okra	3	-	4	10					
21	ICM in Vegetable Crop Cafeteria	ICAR-IIHR, Bengaluru	Vegetable crops	10	-	5	10					
22	Introduction of Ashwagandha crop	CSIR-CIMAP, Lucknow, UP	Ashwagandha	-	10	3	5					

S.				No. of programmes conducted							
No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Extension activities)				
23	Introduction of Ajwain crop	ICAR-NRC on seeds spices, Ajmer, Rajasthan	Ajwain	-	5	2	3				
24	Nutrition Garden	UAS, Bengaluru	Health and nutritional security	-	25	14	15				
25	Solar dryer	Rudra solar drier	Chilli	-	3	2	5				
26	Super grain bags	UAS, Raichur	Grain storage	-	40	4	6				
27	Drone Sprayer	UAS, Raichur	Bt. Cotton	03	-	2	3				
28	Battery Operated Onion Detopper	Farmio Pvt. Ltd.	Onion	-	10	2	6				
29	Demonstration of Fodder production	ICAR-IGFRI, RRS, Dharwad & UAS, Dharwad	CB Cows	-	10	14	15				

3.B2 contd..

	No. of farmers covered															
	OFT				FLD				Training				Others (Extension activities)			
	Ger	neral	SC	/ST	General		SC/ST		General		SC/ST		General		SC	/ST
	M	F	M	F	M	F	M	F	M	F	М	F	M	F	М	F
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Demonstration of SPV-2217 variety in	0	0	0	0	16	9	0	0	38	12	12	8	110	28	10	2
Rabi Sorghum crop																
ICM Maize	0	0	0	0	13	1	6	0	50	6	4	0	60	8	7	12
Demonstration of self propelled Maize harvester	0	0	0	0	3	0	0	0	60	20	8	2	65	21	6	4
Maize + Redgram intercropping system	0	0	0	0	6	0	0	0	24	3	1	0	53	2	6	0
Demonstration of nutri cereal crop foxtail millet with high yielding variety DHFt-109-3	0	0	0	0	25	0	0	0	35	14	5	6	80	20	8	9
Introduction of bio- fortified and drought resistant pearl millet VPMV-9	0	0	0	0	3	0	0	0	15	10	3	2	40	20	6	7

							No.	of farme	ers covei	red						
		Ol	FT			FL	_D				ning		Other	s (Extens	ion activ	vities)
	Ger	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral		/ST		neral		/ST
	М	F	M	F	M	F	M	F	М	F	M	F	M	F	М	F
Assessment of high yielding varieties of Greengram DGGV-2 DGGV-7	3	0	0	0	0	0	0	0	14	11	4	3	45	23	5	6
Demonstration of DGGV-2 variety in Greengram crop (ICM practices) DGGV-2	0	0	0	0	20	5	0	0	40	20	0	0	65	35	12	10
Assessment of Production potential of different Blackgram varieties under rainfed condition	0	0	4	1	0	0	0	0	35	15	5	6	43	22	10	8
Assessment of potential productivity of DBGV-204, NBeG-47 and NBeG-49 varieties	5	0	0	0	0	0	0	0	72	30	10	8	75	46	10	12
Assessment of conservation agriculture practice for higher productivity in Chickpea preceeded with Maize crop	3	0	0	0	0	0	0	0	55	25	8	2	44	12	5	1
Demonstration of JAKI-9218 vareity of Bengalgram crop	0	0	0	0	23	0	2	0	69	30	8	4	86	43	12	9
Demonstration of tractor operated bund former in Bengalgram crop	0	0	0	0	9	0	1	0	41	19	4	3	42	22	5	4

							No	. of farm	ers cove	red						
		Ol	FT			FI	_D				ning		Other	s (Extens	sion acti	vities)
	Ger	neral	SC	/ST	Ger	neral	SC	/ST	Ger	neral	SC	/ST	Ger	neral	SC	/ST
	М	F	M	F	M	F	M	F	М	F	М	F	М	F	М	F
Demonstration of solar nipping machine in Bengalgram crop	-	10	3	8	8	0	2	0	37	13	5	2	64	28	10	7
Assessment of Spreading Groundnut varieties for higher productivity	3	0	0	0	0	0	0	0	37	12	3	2	85	26	12	8
Assessment of ISF- 764 and A-2020 Safflower varieties for higher productivity	6	0	0	0	0	0	0	0	45	10	4	1	20	10	6	2
Demonstration of ICM practices in high yielding ISF-764 variety of Safflower	-	25	2	5	23	0	2	0	34	12	8	4	57	33	6	3
ICM in Red onion variety Bheema Super	0	0	0	0	18	3	2	2	117	11	32	4	87	45	11	10
ICM in ByadagiChilli	0	0	0	0	12	2	0	0	112	14	37	3	54	32	4	5
Assessment of Okra Hybrids for higher productivity	2	0	1	0	0	0	0	0	20	16	5	2	34	17	22	12
ICM in Vegetable Crop Cafeteria	0	0	0	0	6	1	3	0	90	10	32	18	60	20	23	17
Introduction of Ashwagandha crop	0	0	0	0	8	0	2	0	45	20	9	4	54	24	8	4
Introduction of Ajwain crop	0	0	0	0	4	0	1	0	37	13	6	4	38	20	5	4
Nutrition Garden	0	0	0	0	0	23	0	2	42	383	10	49	45	204	5	20
Solar Dryer	0	0	0	0	3	0	0	0	35	20	3	2	68	32	4	6
Supe grain bags	0	0	0	0	2	10	4	4	12	34	2	4	0	35	0	6

							No.	of farme	ers cover	ed						
		Ol	FT			FL	_D			Trai	ning		Other	s (Extens	sion activ	vities)
	Ger	neral	SC	/ST	Ger	neral	SC	/ST	Gen	eral	SC	/ST	Ger	neral	SC	/ST
	М	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assessment of different spraying equipment for effective pest management in Bt. Cotton	3	0	0	0	0	0	0	0	35	15	3	2	68	12	2	3
Demonstration of Battery Operated Onion Detopper (Under Demonstration of ICM practices in Red onion variety of Bhima Super)	0	0	0	0	1	0	0	0	26	14	4	3	35	26	5	4
Demonstration of Fodder production	0	0	0	0	10	0	0	0	227	45	20	15	92	54	25	17

PART IV - On Farm Trial

4.A1. Abstract on the number of technologies assessed in respect of crops:

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation		2	3		1					6
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology		1								1
Farm Machineries		1	1							2
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Storage Technique										
Mushroom cultivation										
Total		4	4		1					9

4.A2. Abstract on the number of technologies refined in respect of crops: NIL

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total										

4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises: NIL

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						

4.A4. Abstract on the number of technologies refined in respect of livestock enterprises: NIL

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating						
enterprises						
TOTAL						

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Variatel Evaluation	Bengalgram	Assessment of potential productivity of DBGV-204, NBeG-47 and NBeG-49 varieties	5	5	2 ha / trial (Total : 10 ha)
Varietal Evaluation	Safflower	Assessment of ISF-764 and A- 2020 varieties for higher productivity	5	5	0.4 ha/trial (2.0 ha)
	Okra	Assessment of Okra Hynbrids for higher productivity	3	3	0.6 ha / trial (Total: 1.8 ha)
	Greengram	Assessment of high yielding varieties of Greengram	3	3	0.4 ha/trial (1.2 ha)
	Blackgram	Assessment of production potential of different Blackgram varieties	5	5	0.4 ha/trial (2.0 ha)
	Spreading Groundnut	Assessment of Spreading Groundnut varieties for higher productivity	3	3	0.4 ha/trial (1.2 ha)
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Small Scale Income Generation Enterprises					
Small Scale income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Bengalgram	Assessment of conservation agriculture practice for higher productivity	3	3	1.2 (0.4 ha/ trial)
Farm Machineries	Bt.Cotton	Assessment of different spraying equipments in Bt. Cotton	3	3	1.2 (0.4 ha/trial)
	Summer Groundnut	Assessment of mechanical harvesting of Summer Groundnut for higher productivitry	3	3	1.2 (0.4 ha/trial)
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Tot	al		33	33	

4.B.2. Technologies Refined under various Crops: NIL

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
	Total				

4.B.3. Technologies assessed under Livestock and other enterprises : NIL

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

4.B.4. Technologies Refined under Livestock and other enterprises: NIL

Thematic areas	Name of the livestock Name of the technolog enterprise assessed		No. of trials	No. of farmers	
Evaluation of breeds					
Nutrition management					
Disease management					
Value addition					
Production and management					
Feed and fodder					
Small scale income generating enterprises					
Total					

4.B.5. Technologies assessed under various enterprises by KVKs

SI.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery reduction				
2	Entrepreneurship Development				
3	Health and nutrition				
4	Processing and value addition				
5	Energy conservation				

SI.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of trials	No. of locations
6	Small-scale income generation				
7	Storage techniques				
8	Household food security				
9	Organic farming				
10	Agroforestry management				
11	Mechanization	Drone Sprayer	Assessment of different spraying equipments in Bt. Cotton	3	1
12	Resource conservation technology				
13	Value Addition		·		
14	Others				

4.B.6.Technologies assessed under various enterprises for women empowerment: NIL

	Thematic areas	Name of enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery Reduction				
2	Entrepreneurship Development				
3	Health and Nutrition				
4	Value Addition				
5	Women Empowerment				
6	Others(Home science)				

4.C1.Results of Technologies Assessed

(I) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield (No. of pods per plant)	Gross Return Rs./ha	Net Return Rs./ ha	BC Ratio
1	2	3	4	5	6	7	8	9	10	11	12	13
Croongram	Rainfed	Low productivity due to	Assessment of high	2	T.O.1 (Farmer practice) Shining Moong	-	7.78	Qtl/ha	23.29	51315	28065	2.21
Greengram	Rainled	cultivation of local variety	yielding varieties of Greengram	3	T.O.2 DGGV-2	UAS, Dharwad	11.93	Qtl/ha	31.89	78705	54955	3.31
					T.O.3 DGGV-7	UAS, Dharwad	7.98	Qtl/ha	24.22	52635	28885	2.22

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of high yielding varieties of Greengram	DGGV-2 variety grows taller than DGGV-7 and thisis suitable for Mechanical harvesting	-

4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1.Title of Technology Assessed: Assessment of high yielding varieties of Greengram

2. Performance of the Technology on specific indicators

Varieties	Duration (Days)	Plant height (cm)	Pod length (cm)	100 seed weight (g)	Grain yield (Qtl/ha)	% Increase in yield	Net returns (Rs/ha)	B:C Ratio
Local: Shining Moong	94	33.2	8.72	4.141	7.78	-	28065	2.21
T1: DGGV-2	90	44.2	11.6	6.543	11.93	53.34	54955	3.31
T2: DGGV-7	94	33.8	8.8	4.521	7.98	2.50	28885	2.22

- 3. Specific Feedback from farmers: DGGV-2 variety grows taller than DGGV-7 and has got more number of pods.
- 4. Specific Feedback from Extension personnel and other stakeholders: Nil
- 5. Feedback to Research System based on results and feedback received: DGGV-7 is not suitable for mechanical harvesting
- **6. Feedback on usefulness and constraints of technology :** Since most of the Greengram under cultivation undergoes mechanical harvesting, this variety (DGGV-2) suits for the district.

(II) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (Plant height(cm))	Gross Return Rs./ha	Net Return Rs. / ha	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
			A	Assessment of potential productivity	T.O.1 (Farmers' practice) Cultivation of JG-11 variety	-	17.80	Qtl/ha	30.12	85440	50940	2.48
		Productivity of JAKI- 9218	of potential productivity		T.O.2 Cultivation of JAKI- 9218 variety	UAS, Dharwad	19.78	Qtl/ha	30.96	94920	59420	2.67
Bengalgram	Protective irrigation	variety is low under irrigated	of DBGV- 204, NBeG- 49 and Phule	5	T.O.3 Assessment of DBGV-204 variety	UAS, Dharwad	20.50	Qtl/ha	31.98	97680	62180	2.75
		condition	Vikram varieties		T.O.4 Assessment of NBeG-49 variety	PJTSAU, Hyderabad	22.05	Qtl/ha	34.62	105840	70340	2.98
					T.O.5 Assessment of Phule Vikram variety	MPKV, Rahuri	22.23	Qtl/ha	39.34	106680	71180	3.01

4. C2.Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of potential productivity of DBGV-204, NBeG-49 and Phule Vikram varieties	NBeG-49 and Phule Vikram varieties are high yielding and suitable for mechanical harvesting. No constraints in adoption of Technology.	 NBeG-49 variety seeds need to be made available in large quantity in command area villages.

- 4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)
 - 1. Title of Technology Assessed: Assessment of potential productivity of DBGV-204, NBeG-49 and Phule Vikram varieties
 - 2. Performance of the Technology on specific indicators

	Performance indicators									
Technology Assessed	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	Plant height (cm)	No. of pods/plant	Test weight (g)	Duration (Days)			
Farmer's practice: Cultivation of JG-11 variety	17.80	50940	2.48	30.12	37.02	23.01				
		1					110			
Recommended practice: Cultivation of JAKI-9218 variety	19.78	59420	2.67	30.96	38.12	24.23	110			
Alternate practice-1: Assessment of DBGV-204 variety	20.5	62180	2.75	31.98	41.87	24.45	112			
Alternate practice-2: Assessment of NBeG-49 variety	22.05	70340	2.98	34.62	46.24	25.08	115			
Alternate practice-3: Assessment of Phule Vikram variety	22.23	71180	3.01	39.34	46.67	25.12	112			

- 3. Specific Feedback from farmers: NBeG-49 and Phule Vikram varieties are high yielding and suitable for mechanical harvesting. No constraints in adoption of Technology.
- 4. Specific Feedback from Extension personnel and other stakeholders: Check suitability of NBeG-49 under rainfed condition also.
- 5. Feedback to Research System based on results and feedback received: NIL
- 6. Feedback on usefulness and constraints of technology:

(III) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (Soil moisture content*(%d.b.))	Gross Return Rs./ha	Net Return Rs. / ha	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
		Non profitability due to moisture stress,	ire Assessment	of onservation agriculture practice for higher 3	T.O.1 (Farmers' practice) Sowing of Chickpea following conventional tillage after maize harvest		19.50	Qtl/ha	14.45	87750	58150	2.96
Bengalgram	Protective irrigation	deterioration of soil physical properties due to repeated	of conservation agriculture practice for		T.O.2 Direct sowing of Chickpea in standing stubbles after combined harvester operation	PAU, Ludhiana	20.85	Qtl/ha	21.17	94050	65750	3.32
		use of machineries especially Rotavators& reduced water application efficiency	in Chickpea preceeded with Maize		T.O.3 Direct sowing of chickpea in cut and spread maize crop residue after harvesting with Self Propelled Single Row Maize Harvester	PAU, Ludhiana	21.20	Qtl/ha	22.56	95400	68000	3.48

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of conservation agriculture practice for higher productivity in Chickpea preceeded with Maize crop	Conservation Agriculture practices in Chickpea enhanced the yield and resulted in early germination of seeds. Soil water holding capacity was also improved.	Lack of knowledge to farmers regarding the technology

- 4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)
 - 1. Title of Technology Assessed: Assessment of conservation agriculture practice for higher productivity in Chickpea preceded with Maize crop
 - 2. Performance of the Technology on specific indicators

			Performar	nce indicators		
Technology Assessed	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	Soil Moisture Content* (% d.b.)	Soil Bulk Density (g/cm3)	Saving in cost of cultivation (%)
Farmer's practice: Sowing of Chickpea following conventional tillage after maize harvest	19.50	58150	2.96	14.45	1.44	-
Recommended practice: Direct sowing of Chickpea in standing stubbles after combined harvester operation	20.85	65750	3.32	21.17	1.32	4.39
Alternate practice-1: Direct sowing of chickpea in cut and spread maize crop residue after harvesting with Self Propelled Single Row Maize Harvester	21.20	68000	3.48	22.56	1.34	7.43

- 3. Specific Feedback from farmers: Conservation Agriculture practices in Chickpea enhanced the yield and resulted in early germination. Soil water holding capacity was also improved.
- 4. Specific Feedback from Extension personnel and other stakeholders: Conservation agriculture practices are well suited for irrigated condition and farmers may adopt the technology.
- 5. Feedback to Research System based on results and feedback received: Nil
- 6. Feedback on usefulness and constraints of technology:
 - The technology has to be adopted over a long period to obtain good results.
 - Incidence of weeds and mites are the major constraints.

(IV) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield (No. of pods per plant)	Gross Return Rs./ ha	Net Return Rs./ ha	BC Ratio
1	2	3	4	5	6	7	8	9	10	11	12	13
		Low productivity	Assessment of Production potential of		T.O.1 (Farmer practice) Unidentified variety	-	5.35	Qtl/ha	24.12	33170	9670	1.41
Blackgram	Rainfed	due to cultivation of local	different Blackgram varieties	5	T.O.2 DBGV-5	UAS, Dharwad	7.80	Qtl/ha	28.12	50700	26700	2.11
		variety	under rainfed condition		T.O.3 BDU-12	UAS, Raichur	7.53	Qtl/ha	27.14	48913	24913	2.04

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of Production potential of different Blackgram varieties under rainfed condition	Both varieties performed well under rainfed condition (T.O.2 & T.O.3)	Non availability of seeds on larger scale

4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1.Title of Technology Assessed: Assessment of Production potential of different Blackgram varieties under rainfed condition

2. Performance of the Technology on specific indicators

Varieties	Duration (Days)	Plant height (cm)	Pod length (cm)	100 seed weight (g)	Grain yield (Qtl/ha)	% Increase in yield	Net returns (Rs/ha)	B:C Ratio
Local: Unidentified	85	33.20	8.60	5.167	5.35	-	9670	1.41
T1: DBGV-5	85	39.20	10.8	6.942	7.80	45.79	26700	2.11
T2: BDU-12	85	38.60	9.9	6.156	7.53	40.74	24913	2.04

- 3. Specific Feedback from farmers: Both varieties have got more number of pods and thus result in higher yield
- 4. Specific Feedback from Extension personnel and other stakeholders: Nil
- **5. Feedback to Research System based on results and feedback received:** Need to develop taller varieties which can be suitable for mechanical harvesting
- 6. Feedback on usefulness and constraints of technology: Nil

(V) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield (No. of pods per plant)	Gross Return Rs./ha	Net Return Rs. / ha	BC Ratio
1	2	3	4	5	6	7	8	9	10	11	12	13
		Productivity of existing local	Assessment of Spreading		T.O.1 (Farmer practice) Maradur local	-	2.93	Qtl/ha	20.05	18135	-13115	0.58
Spreading Groundnut	Rainfed	varieties is very less under	Spreading Groundnut varieties for higher	3	T.O.2 DSG-1	UAS, Dharwad	3.03	Qtl/ha	20.13	19663	-8837.5	0.69
		rainfed condition	productivity		T.O.3 GJG-19	JAU, Gujarat	3.58	Qtl/ha	23.40	23238	-5262.5	0.82

^{*}Since crop received high rainfall during early stages, crop performance was very poor. Hence, there is lower yield resulting in negative net returns

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of Spreading Groundnut varieties for higher productivity	-	-

4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1.Title of Technology Assessed: Assessment of Spreading Groundnut varieties for higher productivity

2. Performance of the Technology on specific indicators

Varieties	Duration (Days)	Plant height (cm)	100 Kernal weight (g)	Pod yield (Qtl/ha)	% Increase in yield	Net returns (Rs/ha)	B:C Ratio
Local: Maradur local	135	32.12	37.21	2.93	-	-13115	0.58
T1: DSG-1	124	31.20	37.60	3.03	3.41	-8837.5	0.69
T2: GJG-19	124	34.29	39.80	3.58	22.18	-5262.5	0.82

^{*}Since crop received high rainfall during early stages, crop performance was very poor. Hence, there is lower yield resulting in negative net returns

3. Specific Feedback from farmers: Nil

4. Specific Feedback from Extension personnel and other stakeholders: Nil

5. Feedback to Research System based on results and feedback received: Nil

6. Feedback on usefulness and constraints of technology: Nil

(VI) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (No. of capsules/Plant)	Gross Return Rs./unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Cofflower	Deinfod	Low productivity due to	Assessment of ISF-764 and A-2020	6	T.O.1 (Farmers' practice) / Recommended practice Cultivation of local A-1 variety	UAS, Dharwad	12.25	Qtl. /ha.	37	66600	35150	2.13
Safflower	Rainfed	cultivation of local variety	varieties for higher productivity	6	T.O.2 Assessment of ISF-764 variety	IIOR, Hyderabad	16.25	Qtl. /ha	54	87750	56750	2.83
					T.O.3 Assessment of A-2020 variety	UAS, Dharwad	13.75	Qtl. /ha	42	74250	43250	2.39

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of ISF-764 and A- 2020 varieties for higher productivity	ISF-764 has following advantagesMore number of capsules per plantHigher grain weight	-

- 4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)
 - 1. Title of Technology Assessed: Assessment of ISF-764and A-2020 varieties for higher productivity
 - 2. Performance of the Technology on specific indicators

			Pe	rformance indicato	rs	
Technology Assessed	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	% increase in yield	No. of capsules / plant	100 seed weight (gm)
Farmer's practice: Cultivation of A-1 variety	12.25	35150	2.13	-	37	4.36
Alternate practice-1: Assessment of ISF-764 variety	16.25	56750	2.83	32.65	54	5.29
Alternate practice-2: Assessment of A-2020 variety	13.75	43250	2.39	12.24	42	4.56

- 3. Specific Feedback from farmers: Number of branches and capsules are more in ISF-764 variety and matures one week earlier than A-2020
- 4. Specific Feedback from Extension personnel and other stakeholders: The variety need to be promoted in large area
- 5. Feedback to Research System based on results and feedback received: Need to develop leaf spot resistant variety
- **6. Feedback on usefulness and constraints of technology:** More number of branches and capsules per plant in ISF-764 variety resulted in higher grain yield

(VII) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (Fresh fruit weight in gms)	Gross Return Rs./unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
		Low yield, keeping	Assessment		T.O.1 (Farmer practice) Cultivation of Private Hybrids	-	126.14	Qtl/ha	9.95	214444	112720	2.11
Okra	Irrigated	quality and income due to cultivation of local	of Okra Hybrids for higher productivity	3	T.O.2 Assessment of CoBH-4 Okra Hybrids	TNAU, Tamilnadu	143.21	Qtl/ha	10.86	243457	139104	2.33
		variety			T.O.3 Assessment of Arka Nikita Okra Hybrids	ICAR-IIHR, Bengaluru	149.14	Qtl/ha	11.22	283360	177418	2.67

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of Arka Nikita	Fruits of Arka Nikita are very tender, attractive and preferred in Gadag city market	-

- 4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)
 - 1. Title of Technology Assessed : Assessment of Okra Hybrids for higher productivity
 - 2. Performance of the Technology on specific indicators :

Technology Assessed			Performance	indicators		
	Fresh fruit weight (gms)	Average Plant height (cm)	Average fruit length (cm)	Net Returns (Rs./ha)	B.C. Ratio	Market price (Rs./Qtl)
Farmers' practice: Cultivation of Private Hybrids	9.95	95.82	11.30	112720	2.11	1700
Recommended practice: Assessment of CoBH-4 Okra Hybrid	10.86	106.5	13.90	139104	2.33	1700
Alternate practice-1: Assessment of Arka Nikita Okra Hybrid	11.22	118.25	14.70	177418	2.67	1900

- 3. **Specific Feedback from farmers**: Arka Nikita is suitable for Rabi cultivation, which fetches better price. The fruits are very tender, attractive and preferred in Gadag market. Therefore farmers accepted Arka Nikita Okra Hybrid.
- 4. Specific Feedback from Extension personnel and other stakeholders: --
- 5. Feedback to Research System based on results and feedback received : --
- 6. **Feedback on usefulness and constraints of technology:** Arka Nikita is suitable for Rabi cultivation, which fetches better price. The fruits are very tender, attractive and preferred in Gadag market. Therefore farmers accepted Arka Nikita Okra Hybrid.

(VIII) Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs./ha	Net Return Rs. / ha	BC Ratio
1	2	3	4	5	6	7	8	9	10	11	12	13
		a. Incidence of pests, especially white flies and thrips b. Incidence of	Assessment of different	3	T.O.1 (Farmer practice): Spraying by Battery operated knapsack sprayer	-	13.20	Qtl./ha	i. Application Rate (I/ha) = 259 ii. Labour requirement (man-h/ha) = 12 iii. Area coverage (ha/h) = 0.09 iv. Percentage reduction in pest (%) = 63.85 v. Droplet size (microns) = 1027.39 vi.Droplet Density(No's/cm²) = 17.34	132000	75125	1.75
Bt. Cotton	Rainfed	b. Incidence of disease especially Angular leaf spot c. Drudgery of operation in existing spraying methods	spraying equipment for effective pest management in Bt. Cotton	3	T.O.2: Spraying by Tractor Operated Boom Sprayer	UAS, Raichur	13.80	Qtl./ha	i. Application Rate (I/ha) = 363 ii. Labour requirement (man-h/ha) = 1.5 iii. Area coverage (ha/h) = 1.40 iv. Percentage reduction in pest (%) = 83.13 v. Droplet size (microns) = 1300.74 vi.Droplet Density(No's/cm²) = 14.88	138000	83750	2.54
					T.O.3: Spraying by Drone Sprayer	UAS, Raichur	13.75	Qtl./ha	i. Application Rate (I/ha) = 27 ii.Labour requirement	137500	84750	2.60

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs./ha	Net Return Rs. / ha	BC Ratio
									(man-h/ha) = 0.5 iii.Area coverage (ha/h) = 2.48 iv. Percentage reduction in pest (%) = 74.69 v. Droplet size (microns) = 980.17 vi. Droplet Density(No's/cm²) = 34.14			

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of different spraying equipment for effective pest management in Bt. Cotton	 Technologies (Tractor Operated Boom Sprayer and Drone Sprayer) performed well and shown good control of pests in Bt. Cotton. Use of Drone Sprayer resulted in saving of pesticide chemical by 15-20%. There was significant saving in labour and time of operation when compared to Farmers' practice 	High Initial cost of machines is the major constraint in adoption of the technologies.

4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

- 1. Title of Technology Assessed : Assessment of different spraying equipment for effective pest management in Bt. Cotton
- 2. Performance of the Technology on specific indicators

Technologies	Yield (Qtl/ha)	Application Rate (I/ha)	Labour requirement	Area coverage	Percentage reduction	Droplet size	Droplet Density	Net Returns	B:C Ratio
	,	, ,	(man-h/ha)	(ha/h)	in pest (%)	(microns)	(No's/cm ²)	(Rs./ha)	
Farmers Practice: Spraying by Battery	13.20	259	12	0.09	63.85	1027.39	17.34	75125	1.75
Operated Knapsack Sprayer									
T.O-1: Spraying by Tractor Operated	13.80	363	1.40	1.40	83.13	1300.74	14.88	83750	2.54
Boom Sprayer									
T.O-2: Spraying by Drone Sprayer	13.75	27	0.50	2.48	74.69	980.17	34.14	84750	2.64

- 3. Specific Feedback from farmers: Drone sprayer reduced the cost of labour and saves time of operation but has lesser efficacy in controlling pests compared to Tractor operated Boom Sprayer.
- 4. Specific Feedback from Extension personnel and other stakeholders : Nil.
- 5. Feedback to Research System based on results and feedback received: Recommendation of pesticide doses need to be standardized for better results with Drone Sprayer
- 6. Feedback on usefulness and constraints of technology: High initial cost and lack of technical skills are the major constraints

4.D1. Results of Technologies Refined: NIL

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Refined	Source of technology	Yield	Unit of yield	Observations other than yield	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
					T.O.1 (Farmer practice)							
					T.O.2							
					T.O.3							

4. D2. Feedback on technologies refined

Name of technology refined	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

4.D.2. Details of Technologies refined:

- 1. Title of Technology Refined
- 2. Performance of the Technology on specific indicators
- 3. Specific Feedback from farmers
- 4. Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results/feedback received
- 6. Feedback on usefulness and constraints of technology

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented

CI.		Forming			Variatul		Thematic	Tachnalagy	Area (ha)	Farme	rs (No.)	Farmers	(No.)
SI. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	area	Technology Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Othe rs
	Oilseeds	Rainfed	Rabi	Safflower	ISF-764	-	Varietal demonstration	Demonstration of high yielding ISF-764 variety of Safflower	10	10	2	23	23	2
	Pulses													
1		Rainfed	Kharif	Greengram	DGGV-2	-	ICM practices	Demonstration of DGGV-2 variety in Greengram crop	10	10	5	20	21	4
2		Rainfed	Rabi	Bengalgram	JAKI-9218	-	ICM practices	Demonstration of ICM practices in JAKI-9218 variety of Bengalgram crop	10	10	2	23	20	5
3		Rainfd	Rabi	Bengalgram	-	-	Farm Machineries	Demonstration of tractor operated compartment bund former in Bengalgram crop	4	4	1	9	9	1
4		Rainfed	Rabi	Bengalgram	-	-	Farm Machinaries	Demonstration of solar nipping machine in Bengalgram crop	-	-	2	8	8	2
	Cereals													
5		Rainfed	Rabi	Rabi Sorghum	SPV- 2217	-	Varietal demonstration	Demonstration of SPV-2217	16	16	3	37	38	2
6		Rainfed	Kharif	Maize	-	CP-848	ICM	Soil test based	8	8	6	14	11	9

SI.		Farming			Variety/		Thematic	Technology	Area (ha)	Farme	rs (No.)	Farmers	
No.	Category	Situation	Season	Crop	breed	Hybrid	area	Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Othe rs
								nutrient application & soil application of FeSo4 & ZnSo4 @ 25 Kg/ha						
7		Rainfed	Kharif	Maize	-	CP-848	Farm machinaries	Demonstration of self propelled Maize harvester	3	3	0	3	0	3
8		Rainfed	Kharif	Redgram	TS-3R	-	Intercropping system	Maize + Redgram intercropping system with ICM practices	2.4	2.4	1	5	4	2
	Millets													
9		Rainfed	Kharif	Foxtail millet	DHFt-109-3	-	Varietal demonstration	Demonstration of high yielding Nutri cereal Foxtail millet crop variety DHFt-109-3	10	10	0	25	25	0
10		Rainfed	Kharif	Pearl millet	VPMV-9	-	Varietal demonstration	Demonstration of biofortified pearl millet variety vpmv-9	3	3	0	3	3	0
11	Vegetables	Irrigated	Rabi 2022	Vegetable crops	Ridgegourd- Arka Prasana Dolichos Bean – Arka Amogh Spinach – Arka Anupam	-	Varietal demonstration	Introduction of new varieties in vegetable crops of ICAR- IIHR, Bengaluru	4.0	4.0	3	7	6	4

		F			Mantatat		T I	T	Area (ha)	Farme	rs (No.)	Farmers	(No.)
SI. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Othe rs
					Radish- Arka Nishant									
12		Rainfed	Kharif 2022	Onion	Bheema Super	-	Varietal demonstration and ICM	Demonstration of ICM in Red onion variety Bheema Super	10	10	-	25	8	17
13		Rainfed	Kharif	Onion	Bhima Super		Farm Machineries	Battery Operated Onion Detopper	-	-	2	8	9	1
	Flowers													
	Ornamental													
	Fruit													
14	Spices and condiments	Rainfed	Kharif 2022	Red chilli	Byadagi Dabbi	-	ICM in ByadgiChilli	ICM in ByadgiChilli	5.6	5.6	-	14	2	12
15		Rainfed	Rabi 2022	Ajwain	Ajmer Ajwain-1	-	Crop introduction	Introduction of Ajwain crop	2	2	1	4	5	0
	Commercial													
16	Medicinal and aromatic	Rainfed	Rabi 2022	Ashwagandha	Poshita	1	Crop introduction	Introduction of Ashwagandha crop	4	4	2	8	8	2
17	Fodder	Irrigated	Kharif	Perennial fodder crops	Hybrid Napier-DHN 6, Multicut Jowar-VH- 988, Guinea grass, Rhodes grass, Signal grass: Lucerne, Stylosanthes Hamata 555	-	Nutrition Management in dairy animals	Demonstration on Fodder Production & feeding to milch animals for enhanced milk productivity	1	1	0	10	10	-

CI		F			Variated		Themselie	Taskaslamı	Area (ha)	Farme	rs (No.)	Farmers	(No.)
SI. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Othe rs
					&StyloScabra seeds, Subabul K8/B-42 & Sesbania									
					grandiflora &Fodder oats									
	Plantation													
	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
	Piggery													
	Sheep and goat													
	Duckery													
	,													
	Common carps													
	Mussels													
	Ornamental fishes													
	1151165													
	Oyster mushroom													
	Button mushroom													
	Vermicompost	1												

CI.		Forming	l l		Variety/		Thomatic	Tooknology	Area (ha)	Farme	ers (No.)	Farmers	(No.)
SI. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Othe rs
<u> </u>	Sericulture	<u> </u>	<u> </u>										'	<u> </u>
<u> </u>		<u> </u>	<u> </u>	<u> </u>	1				<u> </u>				'	<u> </u>
<u> </u>	Apiculture	<u> </u>	<u> </u>	<u> </u>	1				<u> </u>				'	<u> </u>
<u> </u>		<u> </u>	<u> </u>		1				<u> </u>		<u> </u>		'	<u> </u>
	Implements	'			1				<u> </u>				<u> </u>	
	Others	1		1	1			•					'	
<u> </u>	(specify)	<u> </u>	<u> </u>		<u></u>			'	<u> </u>				<u> </u>	
18	Nutri Garden	Irrigated & Rainfed	Kharif & Rabi	Vegetables	-	-	Nutrition	Demonstration of Nutri Garden	-	-	8	17	22	3
19	PHT			Red Chilli			PHT	Demonstration of solar dryer for drying of Red chillies	-	-	0	3	3	0
20	Grain storage			Greengram&Bengalgram	-	-	Grain storage	Demonstration of Super grain bags	-	-	8	12	10	10

5.A. 1. Soil fertility status of FLDs plots, if analysed

SI. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year		Status of soil		Previous crop grown
										N	Р	K	
1	Oilseeds	Rainfed	Rabi 2022	Safflower	ISF-764	-	ICM practices	Demonstration of ISF-765 variety in Safflower crop	Rabi 2022	L	М	M	Rabi Sorghum
2		Rainfed	Summer 2023	Summer Groundnut	Kadari Lepakshi	-	ICM practices	Demonstration of Kadari Lepakshi variety in Safflower crop	Summer 2023	L	L	L	Greengram
3	Pulses	Rainfed	Kharif- 2022	Greengram	DGGV-2	-	ICM practices	Demonstration of DGGV-2 variety in Greengram crop	Kharif-2022	L	L	M	Bengalgram
4		Rainfed	Rabi 2022	Bengalgram	JAKI-9218	-	ICM practices	Demonstration of JAKI-9218 variety in Bengalgram crop	Rabi 2022	L	L	M	Greengram
5		Rainfed	Rabi 2022	Bengalgram	-	-	Farm machinaries	Demonstration of tractor operated compartment bund former in Bengalgram crop	Rabi 2022	L	L	M	Greengram
	Cereals												
6		Rainfed	Kharif	Maize	-	CP-848	Integrated	Integrated Crop Management	Kharif 2022	L	L	М	Chickpea

SI. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year		tatı f sc		Previous crop grown
										N	Р	K	
			2022				Crop Managem ent						
7		Rainfed	Kharif 2022	Maize	-	CP-848	Farm machinaries	Demonstration of self propelled Maize harvester	Kharif 2022	L	L	М	Chickpea
8		Rainfed	Kharif 2022	Redgram	TS-3R	-	Intercroppi ng system	Maize+Redgram intercropping system with ICM practices	Kharif 2022	L	L	М	Groundnut
9		Rainfed	Rabi 2022	Rabi Sorghum	SPV-2217	-	ICM	Demonstration of SPV-2217 variety	Rabi 2022	L	L	Н	Greengram & fallow land
	Millets												
10		Rainfed	Kharif 2022	Foxtail Millet	DHFt-190-3		Varietal demonstra tion	Demonstration of high yielding DHft-190-3 variety	Kharif 2022	L	L	М	Ragi Sorghum
11		Rainfed	Kharif 2022	Pearl Millet	VPMV-9		Varietal demonstra tion	Demonstration of high yielding VPMV-9 variety	Kharif 2022	L	L	М	Rabi Sorghum
12	Vegetables	Irrigated	Rabi 2022	Vegetable crops	Ridgegourd - Arka Prasana Dolichos Bean – Arka Amogh Spincah– Arka Anupam Radish – Arka Nishant	-	Varietal demonstra tion	Introduction of new varieties in vegetable crops of ICAR-IIHR, Bengaluru	Rabi 2022	L	L	M	Greengram
13		Rainfed	Kharif 2022	Red Onion	Bheema Super	-	ICM practices	Demonstration of Bheema Super variety in Red Onion	Kharif 2022	L	L	М	Chickpea
	Flowers												
	Ornamental										<u> </u>		
4.4	Fruit				Dura da ai		IONA in		Kh = "if 0000	ļ.,	ļ.,	N 4	Dah:
14	Spices and condiments	Rainfed	Kharif 2022	Red chilli	Byadagi Dabbi	-	ICM in Byadgi	ICM in ByadgiChilli	Kharif 2022	L	L	М	Rabi Sorghum

SI. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year		tatı f so		Previous crop grown
									, ,	N	Р	K	J
15		Rainfed	Rabi 2022	Ajwain	Ajmer Ajwain-1	-	Chilli Varietal introduc tion	Introduction of Ajwain crop	Rabi 2022	L	L	M	Chickpea
16	Commercial Medicinal and aromatic	Ashwagan dha	Rabi 2022	Ashwagan dha	Poshita	-	Varietal introduction	Introduction of Ashwagandha crop	Rabi 2022	L	L	M	Rabi Sorghum
17	Fodder	Irrigated	Kharif 2022	Perennial Fodder crops	Hybrid Napier- DHN 6, Multicut Jowar-VH- 988, Guinea grass, Rhodes grass, Signal grass: Lucerne, Stylosanthe s Hamata 555 &StyloScabr a seeds, Subabul K8/B-42 & Sesbania grandiflora & Fodder oats	-	Nutrition Manageme nt in dairy animals	Demonstration on Fodder Production	Kharif 2022	L	L	М	Maize
	Plantation Fibre									\vdash			
	Sericulture									\vdash			

5.B. Results of FLDs

5.B.1. Crops

	Name of the		Ну	Farmi ng	No. of	Area		Yield	(q/ha)		%		onomics on stration (R			mics of cl (Rs./ha)	neck
Crop	technology demonstrat ed	Variety	bri d	situati on	Demo.	(ha)		Demo		Check	Incre- ase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
							Н	L	Α								
Oilseeds																	
Safflower	Demonstrati on of ISF- 764 variety in Safflower	ISF-764	-	Rainfed	25	10	16.5	13.6	15.35	12.05	27.38	82890	51090	2.61	65070	34670	2.14
Summer Groundnut	Demonstrati on of Kadari Lepakshi variety in Summer Groundnut	Kadari Lepakshi	-	Rainfed	25	10					Re	esults are a	waited				
Pulses																	
Greengram	Demonstrati on of DGGV-2 variety in Greengram crop	DGGV-2	-	Rainfed	25	10	12.62	7.91	10.30	8.35	23.4	67975	44225	2.86	54246	30996	2.33
Bengalgra m	Demonstrati on JAKI- 9218 variety in Bengalgram crop	JAKI- 9218	-	Rainfed	25	10	18.3	15.4	17.8	14.0	27.14	83660	53200	2.75	65800	37480	2.38
Cereals																	
Rabi Sorghum	Demonstrati on of SPV- 2217 variety	SPV- 2217	-	Rainfed	40	16	22.8	17.9	21.02	17.50	20.11	54652	27152	1.99	45500	18000	1.65

	Name of the		Ну	Farmi ng	No. of	Area		Yield	(q/ha)		%		conomics of stration (R			mics of cl (Rs./ha)	heck
Crop	technology demonstrat ed	Variety	bri d		Demo.	(ha)		Demo		Check	Incre- ase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
							Н	L	Α								
Maize	Integrated Crop Management		CP- 848	Kharif 2022	20	8	59.00	51.25	56.16	51.51	9.0	112320	65224	2.38	103020	56904	2.23
Maize+ Redgram	Maize+ Redgram intercropping system with ICM practices		CP- 848 in Mai ze	Rainfed	6	2.4	CEY of Maize: 66.8	CEY of Maize: 62.1	CEY of Maize: 65.01	54.83	18.56	130033	77887	2.48	109666	62166	2.30
Millets	•																
Foxtail Millet	Demonstratio n of DHFt- 109-3 variety	DHFt- 109-3	-	Rainfed	25	10					Crop vitia	ted due to e	excess rain	fall			
Pearl Millet	Demonstratio n of VPM-9 variety	VPM-9	-	Rainfed	3	1.2					Crop vitia	ted due to e	excess rain	fall			
Vegetables:	Introductio n of new	Ridgego urd:	-	Irrigat ed	10	4	27.62	20.72	23.92	18.92	26.42						
	varieties of ICAR-IIHR Bengaluru	Arka Prasanna					27.02	20.72		10.92	20.42						
	under Vegetable	Dolichos bean:															
	Crop Cafeteria	Arka Amogh					23.75	19.37	21.50	17.90	20.11	265635	196000	3.81	212048	147338	3.28
		Radish :															
		Arka Nishant					69.00	53.12	61.12	47.50	28.67						
		Spinach:					33.75	24.57	28.85	23.35	23.55						
		Arka Anupam															

	Name of the		Ну	Farmi ng	No. of	Area		Yield	(q/ha)		%		conomics of stration (R			mics of cl (Rs./ha)	neck
Crop	technology demonstrat ed	Variety	bri d		Demo.	(ha)				Check	Incre- ase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
							Н	L	Α								
Red Onion	Demonstrat ion of ICM in Red onion variety Bheema Super	Bheema Super	1	Rainf ed	25	10	46.25	30.00	37.78	29.79	26.80	45330	22154	1.97	29790	8205	1.39
Flowers																	
Ornamental																1	
Fruit																	
Spices and condiments																	
Ajwain	Introduction of Ajwain crop	Ajmer Ajwain-1	-	Rainfed	5	2	7.25	6.0	6.50	*		58500	28138	1.93			
Chilli	Integrated Crop Management in ByadagiChilli	Byadagi Dabbi	-	Rainfed	14	5.6	9.50	5.20	6.10	4.96	22.84	213438	150761	3.02	173750	116155	3.40
Commer cial																	
Fibre crops like cotton																	
Medicinal and aromatic																	
Ashwagan dha	Introduction of Ashwagand ha crop	Poshita	-	Rainfed	10	4	4.00	3.00	3.58	*		71500	51934	3.65			

	Name of the	Hy Rami Yield (q/na)		%	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)								
Crop	technology demonstrat ed	Variety	bri d	 Demo.	(ha)		Demo	Demo		Incre- ase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						Н	L	Α								
Fodder																
Plantation																
Fibre																
Others (pl.specify)																

^{**} BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

1)Data on additional parameters other than yield : Demonstration of DGGV-2 variety in Greengram crop

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demonstration plot	Local check plot							
Plant height	43.42	36.20							
No. of pods per plant 30.12 23.81									

2) Data on additional parameters other than yield: Demonstration of SPV-2217 variety in Rabi Sorghum

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demonstration plot	Local check plot							
Lodging of plants (Percentage) at harvest	2.12	9.16							
Plant height (cm) 217 196									

^{*} Ajwain and Ashwagandha crop demonstrations do not have local check as these cropsare new introduction during rabi season. Hence, Ajwain is compared with Bengalgram and Ashwagandha is compared with Rabi Sorghum crop as local checks to show that Ajwain and Ashwagandha are more profitable compared to traditional rabi season cropsi.eBengalgram and Rabi Sorghum respectively.

3) Data on additional parameters other than yield : FLD on ICM in Onion

	Data on other parameters in relation to technolo	gy demonstrated
Parameter with unit	Demo	Check
Bulb weight (gms)	102.78	91.83

4) Data on additional parameters other than yield: Demonstration of Battery Operated Onion Detopper (FLD on ICM in Onion)

	Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demo	Check								
Rate of detopping (Kg/hour)	180	130								
Labour requirement (man-h/tonne)	11	16								
Saving in Time (%)	38.50	-								
Saving in Labour (%)	31.25	-								

5) Data on additional parameters other than yield: FLD on Introduction of new varieties of vegetable crops of ICAR -IIHR, Bengaluru

Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Check								
Ridgegourd										
Average number of fruits / vine (Nos.)	11.74	9.64								
Average fruit weight (gm/fruit)	112.10	99.89								
Dolichos bean										
Number of days for 1st harvest	48.50	45.25								
Number of pods / plant	30.10	23.50								
Radish										
Number of days for harvest	46	43								
Root length (Cms)	15.20	12.70								
Fresh root weight (gms)	160.25	125.56								
Spinach										
Leaf length (Cms)	25	18								
Leaf width (Cms)	8.25	6.50								

6) Data on additional parameters other than yield : Demonstration on introduction of Ajwain crop

	Data on other parameters in relation to technological	gy demonstrated
Parameter with unit	Demo	Check
Test weight (1000 seeds weight) of the seeds (gms)	0.93	-

5. B2. Feedback on technologies demonstrated

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of DGGV-2 variety in Greengram crop	The variety demonstrated is taller in stature and resistant to pod shattering which makes it suitable for mechanical harvesting	-
Demonstration of SPV-2217 variety in Rabi Sorghum	Variety is comparatively lodging resistant besides having higher productivity	-
Maize + Redgram intercropping system with ICM technology	The Maize + Redgram intercropping system is suitable for dryland area to enhance the income of the farmers	-
Demonstration of vegetable crop cafeteria	 Ridgegourd - Arka Prasan variety An early variety, Gives more yield Low incidence of powdery mildew compared to local variety Fruits are tender with good taste and cooking quality Dolichos bean - Arka Amogh More yield, good marketability and cosumer acceptability Radish - Arka Nishant More yield Mild in pungency Attractive roots and foliage Spinach- Arka Anupam More yield, thick and big leaves make large bunch & attractive green leaf colour and Good Shelf life 	-
Demonstration of ICM in Red onion variety Bheema Super	Bheema Super Bulb weight and quality is superior Attractive pink bulbs fetches better market price (Rs. 200/-more per Qtl) compared to local variety Low incidence of thrips and purple blotch compared to local variety Application of Gypsum helped in less bulb rotting compared to local varieties Application of Arka Vegetable Special helped to get large and dark pink coloured bulbs.	-

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
ICM in ByadgiChilli	 Pure seeds of Byadagi Dabbi supplied to farmers are very good, farmers saved the seeds for next season Maize as border crop and Marigold as trap crop resulted in less incidence of sucking pest and fruit borer respectively Application of Arka Vegetable Special (Micornutrient mixture) resulted in better flower and fruit set and dark red coloured fruits Timely management of Fruit rot resulted in better fruit yield and quality 	-
Demonstration of Battery Operated Onion Detopper (Under FLD on ICM in Onion)	 Battery operated Onion Detopper resulted in reduction of drudgery involved in manual detopping method. There was significant saving in labour requirement and time of operation. 	Since the detopping of onion is done mostly by the women labour, there was hesitation in using the machine due to poor ergonomical design.
Demosntration of introduction of Ajwain and Ashwagandha crops	 These crops withstand vagaries of mansoon and grows well under residual soil moisture conditions compared to field crops. Ashwagandha crop has assured buyback system and green seeds of improved Ajwain variety fetches better market price. Therefore, crop diversification through introduction of these climate resilient crops are more profitable and sustainable than traditional crops during less rainfall years 	-

5.B.3. Livestock and related enterprises

Type of	Name of the technology	Breed	No.	No.	,	Yield ((kg/aı	nimal)	%	*Econ	omics of Rs./ເ	demonstr ınit)	ation	*E	conomics (Rs./ı	s of chec unit)	k
livestock	demonstrated	breed	of Demo	of Units	Demo			Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α										
Dairy	Demonstration on Fodder Production& feeding to cows for higher milk productivity	CB Cows	10	10	12	5.5	6.7	5.2	27.61	25904	54270	28366	2.09	25018	42525	17507	1.69
Poultry																	
Rabbitry																	
Pigerry																	

Type of	Name of the technology	Breed	No. of	No. of	١	rield ((kg/ar	nimal)	%	*Econ	omics of Rs./u	demonstr ınit)	ation	*E	conomics (Rs./ı	s of chec unit)	k
livestock	demonstrated	Di eeu	Demo	Units		Demo	o	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

^{**} BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

FLD on Fodder production

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

Data on additional parameters : Demonstration on Fodder production

	Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration	Check											
	Gradual improvement in the general condition of the animal health												
Feeding of Fodder	Increase in intake of dry fodder	-											
	Cows are coming to heat within the period												
Nutrition	30 Kg green fodder, 10 Kg dry fodder and 2 Kg concentrated feed / Cow / day	No systematic nutrition											

5. B4. Feedback on livestock technologies demonstrated

Name of livestock technology	Useful characters as well as constraints of	Socio-economic as well as administrative
demonstrated	technology	constraints for its adoption
FLD on Fodder production	After production and feeding of perennial green fodder,	-
	and grasses to milking cow, there was	
	 Enhanced intake of fodder 	
	 Increased Milk production 	
	 Improvement in health condition and reduced cost 	
	of cattle feed	

5.B.5. Fisheries: NIL

Type of	Name of the technology	Breed	No. of	Units/ Area	`	/ield	(q/ha)	%			demonstra r (Rs./m2)	ation			s of chec r (Rs./m2)	
Breed	demonstrated Demo (m²) Domo Che		Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR				
					ΗΙ	_ A										
Common																
carps																
Mussels																
Mussels																
Ornamental																
fishes																
Others																
(pl.specify)																

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)

	Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demo	Check if any											

5. B6. Feedback on fisheries technologies demonstrated

Name of fisheries technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

^{**} BCR= GROSS RETURN/GROSS COST

5.B.7. Other enterprises

Enterprise	Name of the technology	Variety/	No. of	Units/ Area	Name of the parameter	,	Yiel	d (Q	tl/ha)	% Increase	den	onomics on nonstration on (Rs.	n		mics of (it) or (Rs	
	demonstrated	species	Demo	{m²}	with unit	D	em	0	Check if any	Increase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						Н	L	Α								
Oyster																
mushroom																
Button																
mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others																
(pl. specify)																

Enterprise	Name of the technology	Variety/	No. of	Units/ Area	Name of the parameter		Yiel	d (Q	tl/ha)	%	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)		
·	demonstrated	species	Demo	{m²}	with unit	Demo		0	Check if any	Increase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						Н	L	Α			11000111	110001111		11000	11000111	
Nutrition & Health	Demonstration of Nutri Garden	-	25	3439.78Sq.mts	 Amount spent towards purchase of vegetables/ye ar Percentage adequacy of vegetables Availability of leafy vegetables, other vegetables and roots and tubers per day/ member 	-	-	-	-		134960	82460	2.47	-	-	-
Post Harvest Technology	Demonstration of Solar dryer for drying of Red Chillies	-	3		No. of days required for drying of chillies Quantity of dry chillies obtained after drying (Kg) Moisture removal rate (Kg/day) Moisture content in Chilli powder (%) Aflatoxin content in Chilli powder (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-

Enterprise	Name of the technology demonstrated				technology			technology	technology	technology	technology	Variety/	No. of	Units/ Area {m²}	Name of the parameter	,	Yiel	d (Q	tl/ha)	Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)	
		species	Demo	(III)	with unit)em	0	Check if any	iliciease	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR										
						Н	L	Α																		
Grain Storage	Demonstration of Super Grain Bags	-	40		 No. of live insects per Kg (Nos./Kg) Weight loss of grains (Kgs) Percentage weight loss of grains (%) 		-	1	-	-	-	-	-	-	-	-										

Data on additional parameters other than yield: Nutri Garden

Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Local								
Amount spent towards purchase of vegetables/year	Rs.3600 (Rs.300/month)	19200 (Rs.1600/month)								
Percentage adequacy of vegetables	45.40	-								
Availability of leafy vegetables, other vegetables and roots and tubers per day/ member (gms)	227.00	-								

Data on additional parameters other than yield : Post Harvest Technology (Solar dryer)

Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Local								
	ByadagiDabbi	ByadagiDabbi								
Quantity of chillies taken (Kg)	32	32								
Number of days required for drying of ByadagiChilli	4.6	9.6								
Quantity of dried chillies obtained after drying (Kg)	11.75	10.40								
Moisture removal rate (Kg/day)	4.40	2.25								
Minimum and Maximum temperature recorded	30°C to 55°C	21°C to 32°C								

	(Dec-Jan)	(Dec-Jan)
Moisture content in Byadagichilli powder (%)	3.28	5.42
Aflatoxin content (mg/Kg)	Not found	Not found
Market price (Rs.)	55000	47000

Data on additional parameters other than yield : Demonstration of Super Grain Bags

Data on other parameters in relation to technolog	gy demonstrated		
	Greengram	(20 Demo)	Bengalgram (20 Demo)
Parameter with unit	Demo	Local	
No. of live insects / Kg (Nos.)	0	5.65	
Initial weight of grains (Kg)	50 Kg	50 Kg	Results are awaited
Final weight of grains (Kg)	49.47	44.93	Results are awaited
Weight loss of grains / 50 Kg (Kg)	0.53	5.07	
Weight loss of grains (%)	1.06	10.14	

5. B8. Feedback on enterprises demonstrated

Name of enterprise demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Nutrition	<u>Useful characters :</u>	Socio-economic constraints
Garden	 Fresh vegetables were available to families Cost incurred for purchase of vegetables has been reduced All family members including children came to know about the cultivation of various vegetables Exchange of vegetables with neighbors and friends Constraints: Water problem and heavy rainfall Management of pest and diseases 	 Due to small land holding, many families may show dis-interest in cultivation of vegetables in smaller quantity Lack of resources Fencing problem Damage of Nutri-Garden occurs due to stray cattles and livestock Administrative constraints Nil
Solar drier	Useful characters: • Drying is uniform and faster • Chillies are free from dust, mud and other particles • Labour requirement is less Constraints: • Not suitable for big farmers • Small quantities can be dried • Susceptable to damage during transportation to Solar drier	Socio-economic constraints Damage of solar drier during drying due to monkeys and cattles Machine is costly Durability of drier is less. Problem of damage of solar panel. Administrative constraints No subsidy from Government for small machines More space required for tunnel drier (Large scale) High investment for installation
Grain storage	Useful characters :	Socio-economic constraints

Name of enterprise demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
	Storage is easyNo pest incidence	Cost is more Repeated purchase of bags due to tearing of bags

5.B.9. Farm implements and machinery

Name of the implement implement		ent demonstrated		Area covered under	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)	*Economics of check (Rs./ha)	
Implement	in Rs.		Demo	demo in ha	Demo	Check	Save		demonstration (No./na)	(13./114)	
Compartment bund former	55000	Tractor operated compartmental bund former	10	4	0.34	1.67	79.64	335	1250	1800	
Solar nipping machine	10500	Solar nipping machine in Chickpea	10	4	1.4	5	72	2100	600	3000	
Self propelled Maize harvester	110000	Self propelled single row Maize harvester	3	1.2	2.4	9	73.3	2100	600	2700	

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than laboursaved (viz., reduction in drudgery, time etc.)

Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Local								
Reduction in time of operation (%)										
Compartmental bund former	82.5%	-								
Solar nipping machine	54%	-								
Self propelled Maize harvester	52%	-								

5. B10. Feedback on farm implements demonstrated

Name of farm implement demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption					
Compartmental bund former	 Forms uniform sized compartmental bunds Incurs additional cost of cultivation in terms of diesel expenses. 	 Lack of knowledge to the farmers about compartmental bunding technology & in-situ soil moisture conservation Design of the equipment can be improved to vary the length & width of bunds as desired. 					
Solar nipping machine	 Reduces drudgery of operation involved in hand nipping Yield as well as number of pods/plant also increases due to nipping Solar panel needs to be backed by a storage battery for operating during low solar intensity hours 	 Nipping operation in Chickpea is considerably being ignored by the farmers due to higher use of chemicals Solar nipping machine is not available for farmers in the subsidsed price 					

5.B.11.Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	10	469	-
2	Farmers Training	62	1793	-
3	Media coverage	12	-	-
4	Training for extension functionaries	9	364	-
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids:

Type of Breed	Name of the technology demonstrated														Name	No.	Area		Yield	l (q/ha)		%	*Econe	omics of one (Rs./		ation	*E	conomics (Rs./		k
		of the hybrid	Demo	of (ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR													
					Н	L	Α																							
Cereals																														
Bajra																														

Type of	Name of the technology	Name of the	No. of	Area		Yield	(q/ha)		%	*Econo	omics of (ation	*Е	conomics (Rs./		
Breed	demonstrated	hybrid	Demo	(ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Maize	ICM in Maize	CP- 848	20	8	59.00	52.40	56.16	51.51	9.0	47096	112320	65224	2.38	46116	103020	56904	2.23
Paddy																	
Sorghum																	
Wheat																	
Others																	
(pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others																	
(pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others																	
(pl.specify)																	
Total																	
Vegetable																	
crops																	
Bottle gourd																	
Capsicum																	
Others					1		1										
(pl.specify)																	
Total																	
Cucumber																	
Tomato																	
Brinjal]]										

Type of	Name of the	Name of the	No. of	Area	Yield	(q/ha)		%	*Econo	omics of (demonstr 'ha)	ation	*E	conomics (Rs./		k
Breed	technology demonstrated	hybrid	Demo	(ha)	Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Okra																
Onion																
Potato																
Field bean																
Others																
(pl.specify)																
Total																
Commercial crops																
Sugarcane																
Coconut																
Others																
(pl.specify)																
Total																
Fodder crops																
Maize (Fodder)																
Sorghum (Fodder)																
Others (pl.specify)																
Total																

Feedback on crop hybrids demonstrated

Name of crop hybrid demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

PART VII. TRAINING

7.A. Training of Farmers and Farm Women including sponsored training programmes (On campus)

	No. of				No. of I	Participa	nts			
Area of training	Cours		General			SC/ST		G	rand Tot	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	
Crop Production										
Weed Management	1	38	2	40	0	0	0	38	2	40
Resource Conservation Technologies										
Cropping Systems	1	20	0	20	25	0	25	45	0	45
Crop Diversification										
Integrated Farming	7	47	155	202	0	16	16	47	171	218
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	7	202	51	253	12	1	13	214	52	266
Soil and Water Conservation										
Integrated Nutrient Management	3	103	14	117	10	0	10	113	14	127
Production of organic inputs	1	10	14	24	0	1	1	10	15	25
Others (pl.specify)										
Natural Farming	13	235	191	426	82	46	128	317	237	554
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
Weed management	1	12	0	12	3	0	3	15	0	15
ICM in vegetable crops	4	51	18	69	10	7	17	61	25	86
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	0	4	4	4	7	11	4	11	15
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										

	No. of				No. of I	Participa	nts			
Area of training	Cours		General			SC/ST		G	rand Tot	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Plant propagation techniques										
Others (pl.specify)										
Integrated Horticulture System	1	0	20	20	0	5	5	0	25	25
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology Processing and value										
addition Others (pl.specify)										
f) Spices										
Production and Management technology Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology in Ashwagandha crop										
Post harvest technology and value addition Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	1	20	0	20	0	0	0	20	0	20
Integrated water management	_									
Integrated nutrient management										
Production and use of organic inputs	2	8	35	43	5	12	17	13	47	60
Management of Problematic soils										

	No. of				No. of I	Participa	nts	_		
Area of training	Cours		General			SC/ST			rand Tot	
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Micro nutrient deficiency in										
Crops Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition										
Management										
Animal Disease										
Management Feed and Fodder										
technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women										
empowerment										
Household food security by kitchen gardening and	10	14	215	229	7	71	78	21	286	307
nutrition gardening	10	17	213	223	,	''	70	21	200	307
Design and development of										
low/minimum cost diet										
Designing and development for high nutrient efficiency	2	5	73	78	0	0	0	5	73	78
diet	_	J	"	10	O		Ŭ	O	10	70
Minimization of nutrient loss										
in processing Processing and cooking			0.5				0-			440
	3	26	65	91	0	25	25	26	90	116
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	26	31	57	4	0	1	20	21	61
Women empowerment	4	0	95	95	<u>4</u> 6	29	4 35	30 6	31 124	130
Location specific drudgery	4	U	90	90	U	23	33	U	124	130
production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
EDP for women	1	0	40	40	0	10	10	0	50	50
Waste management	5	0	0	0	0	148	148	0	148	148
Agril. Engineering	5	U	0	U	U	140	140	U	140	140
Farm machinery and its maintenance	9	211	28	239	58	4	62	269	32	301

	No. of				No. of I	Participa	nts			
Area of training	Cours		General			SC/ST		G	rand Tot	 al
_	es	Male	Female	Total	Male	Female	Total	Male	Female	
Installation and maintenance				1 0 1011						1 0 1011
of micro irrigation systems										
Use of Plastics in farming										
practices										
Production of small tools										
and implements Repair and maintenance of			1							
farm machinery and										
implements										
Small scale processing and										
value addition										
Others (pl.specify)										
Mechanisation in straw					_		4.0			10
management	1	30	9	39	7	3	10	37	12	49
Energy efficient pumps and	3	105	25	130	24	0	24	129	25	154
water conservation	3	103	25	130	24	U	24	123	20	134
Plant Protection										
Integrated Pest	4	124	31	155	16	4	20	140	35	175
Management			01	100	10		20	1 10		
Integrated Disease										
Management Bio-control of pests and										
diseases										
Production of bio control										
agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery										
management			1							
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and										
culture of freshwater prawn										
Breeding and culture of										
ornamental fishes										
Portable plastic carp										
hatchery										
Pen culture of fish and										
prawn Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production	+					1				
Bio-agents production						1				
Pio-agento production										

	No. of				No. of I	Participa	nts			
Area of training	Cours		General			SC/ST		G	rand Tota	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	2	30	35	65	0	5	5	30	40	70
Organic manures production	1	35	0	35	4	0	4	39	0	39
Production of fry and fingerlings Production of Bee-colonies										
and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl. specify)										
Farmers' Producer Organisation										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	1	15	0	15	7	3	10	22	3	25
Others (Pl. specify)										
TOTAL	91	1367	1151	2518	284	397	681	1612	1545	3199

7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)

	No. of				No.	of Partic	ipants			
Area of training	Cours es		General	1		SC/ST			rand Tota	
Crop Production	62	Male	Female	Total	Male	Female	Total	Male	Female	Total
Weed Management										
Resource Conservation										
Technologies										
Cropping Systems	1	25	0	25	5	0	5	30	0	30
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop	5	140	24	164	35	6	41	175	30	205
Management Soil and Water Conservation								170	00	
Integrated Nutrient										
Management										
Production of organic inputs										
Others (pl.specify)										
Organic farming	2	3	55	58	0	17	0	3	72	80
Horticulture										
a) Vegetable Crops										
Production of low value and	1	8	2	10	5	0	5	13	2	15
high volume crop Off-season vegetables									_	
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
IPDM in White Onion										
Vegetable cultivation										
Post harvest management of										
Onion										
ICM in vegetable crops	2	20	12	32	10	3	13	30	15	45
Onion seed production										
&post harvest handling of seeds										
INM in vegetable crops	2	18	0	18	10	0	10	28	0	28
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	8	4	12	8	2	10	16	6	22
Cultivation of Fruit										

	No. of				No. o	of Partic	ipants			
Area of training	Cours		General			SC/ST	•	G	rand Tota	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants Export potential of										
ornamental plants Propagation techniques of Ornamental Plants Others (pl.specify)										
d) Plantation crops										
Production and										
Management technology Processing and value										
addition Others (pl.specify)										
e) Tuber crops										
Production and Management technology Processing and value addition										
Others (pl.specify)										
f) Spices Production and Management technology	1	15	0	15	7	0	7	22	0	22
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	1	15	0	15	4	0	4	19	0	19
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	2	27	0	27	8	0	8	35	0	35
Integrated nutrient management										

	No. of				No. o	of Partici	pants			
Area of training	Cours		General			SC/ST		G	rand Tota	al
	es		Female	Total	Male	Female	Total	Male	Female	
Production and use of										
organic inputs Management of Problematic										
soils										
Micro nutrient deficiency in										
crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and										
Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition										
Management										
Animal Disease										
Management Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women										
empowerment										
Household food security by kitchen gardening and	14	107	229	336	8	61	69	115	290	405
nutrition gardening								115	290	405
Design and development of										
low/minimum cost diet										
Designing and development	3	7	58	65	0	2	2	_		
for high nutrient efficiency diet								7	60	67
Minimization of nutrient loss										
in processing										
Processing and cooking	2	0	45	45	0	20	20	0	65	65
Gender mainstreaming										
through SHGs	_						4.0			
Storage loss minimization techniques	5	37	29	66	8	11	19	45	40	85
Value addition	2	9	27	36	2	9	11	11	36	47
Women empowerment								,,,	00	71
Location specific drudgery										
production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Kitchen waste management	1	18	14	32	0	0	0	18	14	32
	l I	10	14	32	U	U	U	10	14	

	No. of				No.	of Partic	ipants			
Area of training	Cours		General			SC/ST	•	G	rand Tota	al
_	es	Male	Female	Total	Male	Female	Total	Male	Female	
Agril. Engineering										
Farm machinery and its maintenance	3	67	0	67	17	0	17	84	0	84
Installation and maintenance										
of micro irrigation systems Use of Plastics in farming										
practices Production of small tools										
and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	5	94	51	145	22	11	33	116	62	178
Others (pl.specify)	4	47		47		4				
Operation of solar nipping machine	1	17	0	17	3	1	4	20	1	21
Conservation in agriculture practices	1	4	0	4	0	0	0	4	0	4
Plant Protection										
Integrated Pest Management	2	22	0	22	10	0	10	32	0	32
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Integrated pest and disease management										
Organic farming										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn	_									
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value										

	No. of				No.	of Partici	ipants			
Area of training	Cours		General			SC/ST		G	rand Tota	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
addition										
Others (pl.specify)										
Production of Inputs at										
site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies										
and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	8	6	14	0	0	0	8	6	14
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	2	3	37	40	0	17	17	3	54	57
Others (Pl. specify)										
TOTAL	60	672	593	1265	162	160	305	834	753	1592

7.C. Training for Rural Youths including sponsored training programmes (on campus)

	No.			ı	No. of F	Participa	nts			
Area of training	of General SC/ST Cou rses Male Female Total Male Fem						1	Gr	and To	tal
		Male	Female	Total	Male	Fem ale	Total	Male	Fem ale	Total
Nursery Management of Horticulture crops						uio			uio	
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	2	20	40	60	0	0	0	20	40	60
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying	6	71	38	109	18	15	33	89	53	142
Sheep and goat rearing	2	27	3	30	14	0	14	41	3	44
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	9	2	11	3	2	5	12	4	16
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
Health and nutrition										
TOTAL	11	127	83	210	35	17	52	162	100	262

7.D. Training for Rural Youths including sponsored training programmes (off campus)

	No.				No. o	f Partic	ipants			
Area of training	of		Genera	I		SC/ST		G	rand To	tal
7 ou or a ug	Cour ses	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fem ale	Total
Nursery Management of Horticulture crops			u.0			<u></u>			uic	
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching	2	0	48	48	0	12	12	0	60	60
Rural Crafts Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
ICT in agriculture	1	10	20	30	3	2	5	13	22	35
TOTAL	3	10	68	78	3	14	17	13	82	95

7.E. Training programmes for Extension Personnel including sponsored training programmes (on campus)

	No.				No. of	Partic	ipants			
Area of training	of		Genera			SC/ST		Gı	and To	tal
7 ii ou or ii ummig	Cour ses	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fem ale	Total
Productivity enhancement in field crops	2	60	20	55	5	0	5	65	20	85
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements	2	37	34	71	1	2	3	38	3	41
Gender mainstreaming through SHGs	1	0	27	27	0	0	0	0	27	27
Formation and Management of SHGs										
Women and Child care	2	0	60	60	0	0	0	0	60	60
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization	3	27	71	98	2	22	24	29	93	122
Information networking among farmers										
Capacity building for ICT application	3	101	5	106	12	0	12	113	5	118
Management in farm animals	1	30	12	42	0	0	0	30	12	42
Livestock feed and fodder production										
Household food security	3	29	59	88	0	10	10	29	69	98
Any other (pl.specify)										
Women entrepreneur	5	0	129	129	3	21	24	3	150	153
Health and Nutrition	5	0	179	179	0	46	46	0	225	225
Micro food processing enterprise	2	0	66	66	0	14	14	0	80	80
Total	29	284	662	921	23	115	138	307	744	1051

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)

	No. of				No. of I	Particip	ants			
Area of training	Cours	(General			SC/ST		G	rand To	otal
Area or training	es	Male	Fem ale	Total	Male	Fem ale	Tot al	Ma le	Fem ale	Total
Productivity enhancement in										
field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic										
inputs										
Care and maintenance of farm										
machinery and implements										
Gender mainstreaming through										
SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder										
production										
Good food & nutrition garden										
Any other (pl.specify)										
Entrepreneurship development	2	0	58	58	0	30	30	0	88	88
Women empowerment	1	0	18	18	0	3	3	0	21	21
Total	3	0	76	76	0	33	33	0	109	109

7.G. Sponsored training programmes conducted

		No.				No. of	Partici	pants			
S.	Avec of training	of		Genera	l		SC/ST	P	Gr	and To	tal
No.	Area of training	Cour ses	Male	Fem	Total	Male	Fem	Total	Male	Fem	Total
		363	Wate	ale	TOtal	IVIAIC	ale	I Otal	Wale	ale	IOtai
1	Crop production and management										
1.a.	Increasing production and productivity of crops	6	109	88	197	0	11	11	109	99	208
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility										
	management										
4	Production of Inputs at site										
5	Methods of protective										
	cultivation										
6	Others (pl.specify)										
	Soil and water conservation										
7	Post harvest technology										
	and value addition										
7.a.	Processing and value	1	1	29	30	0	0	0	1	29	30
	addition	_	-		30						00
7.b.	Others (pl.specify)										
	Storage loss minimization										
	techniques										
8	Farm machinery										
8.a.	Farm machinery, tools and implements	13	385	87	472	77	22	99	462	109	571
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and										
	management										
10.a.	Animal Nutrition										
	Management										
10.b.	Animal Disease										
4.0	Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)	E	64	20	00	10	15	20	71	EO	107
	Scientific dairy management	5 1	61 9	38	99 11	13	15 2	28 5	74 12	53 4	127 16
	Poultry management Scientific management of		9		11	3		5	IΖ		10
	sheep & goat	2	27	3	30	14	0	14	41	3	44
	Management in farm										
	animals	1	30	12	42	0	0	0	30	12	42
11.	Home Science										<u> </u>
11.a.	Household nutritional										<u> </u>
11.α.	security	10	5	327	332	0	61	61	5	433	388
11.b.	Economic empowerment of		_	3_/							
	women	6	0	154	0	0	32	32	0	186	186
11.c.	Drudgery reduction of										<u> </u>
	women										
11.d.	Others (pl.specify)										
	Waste management	5	0	0	0	0	148	148	0	148	148
	Tailoring & stitching	1	0	24	24	0	6	6	0	30	30

		No.				No. of	Partici	pants			
S.	Area of training	of		Genera	l	,	SC/ST		Gr	and To	tal
No.	Area or training	Cour ses	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fem ale	Total
	Women and child care	2	0	60	60	0	0	0	0	60	60
	Value addition	1	25	2	27	4	0	4	29	6	35
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics	6	101	134	235	12	50	62	113	184	297
12.b.	Others (pl.specify)										
	Integrated Farming systems	2	1	65	66	0	4	4	1	69	70
	Organic farming practice	2	8	35	43	5	12	17	13	47	60
	Natural farming	1	0	33	33	0	0	0	0	33	33
	ICT in agriculture	1	10	20	30	3	2	5	13	22	35
	Total	66	772	1113	1731	131	365	496	903	1527	2380

Details of sponsoring agencies involved

- i) Dept of Animal Husbandry and Veterinary Sciences
- ii) NRLM
- iii) ATMA
- iv) PCRA
- v) SBI-ASF RSETI, Hulkoti
- vi) SCSP
- vii) SKDRDP
- viii) Department of health and family welfare
- ix) Zilla Panchayat

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

		No. of				No. of	f Partic	cipant	S		
SI.	Area of training	Cour	(General			SC/ST		G	rand T	otal
No.	Area of training	ses	Male	Fem ale	Tot al	Male	Fem ale	Tot al	Male	Fem ale	Total
1	Crop production and management										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	Post harvest technology and										
	value addition										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming	8	90	73	163	29	21	50	119	94	213
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing	3	58	4	62	21	1	22	79	5	84
3.d.	Piggery										
3.e.	Poultry farming	1	9	2	11	3	3	6	12	5	17
3.f.	Others (pl.specify)										
4.	Income generation activities										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio- pesticides, bio-fertilizers etc.										

		No. of				No. o	f Partic	cipant	s		
SI.	Area of training	Cour	(General			SC/ST	1	G	rand T	otal
No.	Area or training	ses	Male	Fem ale	Tot al	Male	Fem ale	Tot al	Male	Fem ale	Total
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	1	0	24	24	0	6	6	0	30	30
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	ICT in agriculture	1	10	20	30	3	2	5	13	22	35
	Grand Total	13	167	123	290	56	33	89	223	156	379

7.I. Details of Skill Training Programmes carried out by KVKs under ASCI : NIL

								No. o	f Partic	ipant	s			No of Partic
			Date	Total		enera			SC/ST		G	rand T	otal	ipants
S. No.	Name of Job Role	Date of Start	of Assessme nt	Expenditur e (Rs.)	Male	Fem ale	To tal	Ma le	Fem ale	To tal	Ma le	Fem ale	Total	passe d asses sment

PART VIII – EXTENSION ACTIVITIES

8.1 Extension Programmes (including extension activities undertaken in FLD programmes)

	n Programmes									
Nature of Extension	No. of	No.	of Participa (General)	ants	No.	of Particip SC / ST	ants	No	o.of extens personnel	
	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Programme	12		83	384		24	97	12		
Field Day		301			73				9	21
Kisan Mela	3	536	185	721	52	34	86	0	4	4
Kisan Ghosthi	1	0	385	385	0	30	30	16	4	20
Exhibition	4	14000	7135	21135	1795	1880	3675	177	161	338
Film Show	8	66	288	354	59	46	105	2	6	8
Method	_									
Demonstrations	8	170	159	329	28	14	42	9	29	38
Farmers	_								_	
Seminar	5	241	184	425	122	37	159	11	7	18
Workshop	6	250	770	1020	10	24	34	5	2	7
Group	_					_		_		
meetings	9	123	45	168	24	8	32	7	5	12
Lectures										
delivered as										
resource										
persons	12	325	291	616	39	67	106	11	13	24
Advisory								_		
Services	108	100	9	109	0	0	0	3	2	5
Scientific visit										
to farmers field	117	664	103	767	0	0	0	3	1	4
Farmers visit to										
KVK	160	607	305	912	67	79	146	50	7	57
Diagnostic										
visits	12	55	0	55	5	0	5	0	0	0
Exposure visits	3	93	9	102	2	0	2	2	0	2
Soil health										
Camp	4	200	75	275	53	10	63	5	0	5
Animal Health	_	00	00	00	_		_	4		4
Camp	1	60	20	80	0	0	0	1	0	1
Soil test	•	0.5	4.0	47	4		4	_	4	4
campaigns	2	35	12	47	4	0	4	3	1	4
Celebration of										
important										
days (specify)										
International	_	_				_		_	_	
Women's Day	1	5	51	56	16	8	24	2	2	4
Vigilance										
awareness	1	175	30	205	0	0	0	3	2	5
week									_	
World food day	1	32	40	72	10	13	23	3	2	5
World soil day	1	88	204	292	34	0	34	8	0	8
Kisan Diwas	1	65	2	67	0	0	0	4	2	6
Mahila Kisan					_		_			
Diwas	1	22	50	72	5	18	23	4	2	6
World										
environment	1	20	4	24	3	3	6	3	2	5
day	'	20				3			_	
World water										
day	1	59	52	111	16	8	24	2	2	4
Special day		<u> </u>								
celebrations										
94th ICAR								-		
	4	160	40	200	0	0	0	6	_	11
Foundation	1	100	40	200	0	U	0	6	5	''
Day	404	10453	10534	20002	2417	2202	4720	252	270	633
Total	484	18452	10531	28983	2417	2303	4720	352	270	622

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	3
2	Newspaper coverage	24
3	Extension Literature	12
4	Radio Talks	46
5	CD/DVD/Video clips	4
6	Animal health camps (no. of animal treated)	1 (50)
	Total	90

PART IX - PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS (2022)

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Rabi Jowar	SPV-2217	1.92	9600	64
	Foxtailmillet	DHFt-109-3	0.62	3720	31
	Pearlmillet	VPMV-7	0.36	5400	18
Oilseeds	Groundnut	Dh-256	10.32	87960	14
		KDG-123	26.8	189400	53
		DSG-1	0.9	10800	3
		GJG-19	0.9	19800	3
	Safflower	ISF-764	10.32	103200	60
		A-2020	0.175	1750	5
Pulses	Bengalgram	JAKI-9218	18.6	186000	83
	Bengalgram	Phule Vikram	1.0	10000	5
	Bengalgram	NBEG-47	1.0	10000	5
	Bengalgram	DBGV-204	1.0	10000	5
	Greengram	DGGV-2	3.97	47640	51
	Redgram	TS-3R	1.08	16200	36
	Blackgram	LBG-791	1.05	15750	15
	Blackgram	DBGV-5	0.35	4970	5
	Blackgram	BDU-12	0.35	8750	5
Commercial crops					
Vegetables	Onion	Bhima super	0.75	150000	37
-		Arka kalyan	0.18	36000	4
	Chilli	Byadgidabbi	0.14	35000	14
Flower crops					
Spices					
Fodder crop seeds	Sorghum Multi-cut	COFS-31	22.10 Kg	20065	21
	Fodder Cowpea		8.00 Kg	1042	20
	Stylohaemata		4.90Kg	1499	20
	Styloscabra		1.50 Kg	720	20
	Lucerne		5.15 Kg	5272	21
	Subabul		4.55 Kg	2112	20
	Hedge Lucerne		0.50 Kg	700	2
	Sesbenia grandiflora		1.50 Kg	2250	20
	Fodder Oats		125.50Kg	15820	30
Fiber crops					
Forest Species					
Others (specify)					
Total			83.522	1011420	690

9.B. Production of hybrid seeds by the KVKs: Nil

Crop category	Name of the crop	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided

9.C. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					_
Vegetable seedlings	Drumstick	Bhagya	225	4500	36
Fruits	Mango	Alphanso	182	31850	36
	Tamarind	PKM-1	70	7000	35
	Amla	NA-7	350	38500	0
	Amla	Krishna	250	25000	0
	Jamun	AJG-85	105	15750	36
	Guava	Lucknow-49	365	32850	36
	Custard apple	Golden	225	22500	36
	Citrus	Balaji	225	33750	35
	Papaya	Red lady	125	6250	36
	Fig	Bellary	40	1400	0
Ornamental plants					
Medicinal and Aromati	С				
Plantation	Cashewnut	Vengurla-4	172	21500	1
Spices	Curryleaf	Suhashini	175	5250	1
Tuber					
Fodder crop saplings	Guiniea grass		14092	16910	20
	Congo signal		5202	5352	20
	Rhodes grass		11737	11737	20
	Super Napier		9250	18500	22
Forest Species	Mahagani		400	20000	8
	Teak		400	16000	8
	Sandalwood		800	28000	0
Others(specify)					
Total			44390	362599	386

9.D. Production of planting materials by the KVKs

Crop category	Name of the crop	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Vegetable seedlings	Chilli	Byadgidabbi	5000	5000	2

9.E. Production of Bio-Products

Bio Products	Name of the bio- product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	Vermiwash	240 lit	9600	30
	Vermicompost	152 Qtl	60800	48
	Rhizobium	44.0 kg	5500	60
	PSB	58.0 kg	7000	60
	Azospirillum	6.0 kg	600	27
Bio-pesticide		_	0	
Bio-fungicide	Trichoderma	28.0 kg	5950	64
Bio Agents	Earthworms	93.0 kg	28800	48
Others	Azolla			
(specify)		5.0 Kg	500	4
Total		15674	118750	341

9.F. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
RAM	Nari Suvarna	4	120000	4
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total				

PART X - PUBLICATION, SUCCESS STORY, INNOVATIVE MTHODOLOGY, ITK, TECHNOLOGY WEEK

10. A. Literature Developed/Published (with full title, author & reference)

(A) KVK Newsletter:

Date of start: English News Letters - January, 2003 &

Krishi Darpana in Kannada language - October 2015

Periodicity: Monthly Copies printed in each issue: 250

(B) Literature developed/published

Item	Number
Research papers- International	0
Research papers- National	0
Technical reports	0
Technical bulletins	4
Popular articles - English	0
Popular articles – Local language	3
Extension literature	2
Others (Pl. specify)	
TOTAL	9

(iii) Details of Literature developed/published

Please provide the details of above publication in the following format:

- 1. Research articles in journals: NIL
- **2.Technical Reports/ bulletins:** Authors name, Title of the technical report, name of publishing KVK, number of pages.

KVK Scientists, (April-June, 2022) Krishi Vigyan Patrike, Volume-12, Issue-2, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, 8p.

KVK Scientists, (July-September, 2022) Krishi Vigyan Patrike, Volume-12, Issue-3, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, 8p.

KVK Scientists, (October-December, 2022) Krishi Vigyan Patrike, Volume-12, Issue-4, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, 10p.

KVK Scientists, (January-March, 2023) Krishi Vigyan Patrike, Volume-12, Issue-1, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, 9p.

3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Dr. Sudha V. M. (July 2022), Aarogya Vardhak - Kusube Enne, Krishi Kamadenu, 15(7)34-36

Dr.Gururaj Kombali. (27-11-2022), Pulse Magic, Neladanudi,2

Dr.Gururaj Kombali. (05-12-2022), Manne Manikya, Neladanudi,2

4. Extension literature; Authors name, month and year of publication, Title of extension literature like folders, pamphlets etc., name of publishing KVK, number of pages.

Dr.Gururaj Kombali(December, 2022), Natural Farming, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, 12p

Mr. N.H.Bhandi (June 2022), The Journey towards Sustainablility through NICRA Interventions in MahalingapurCluste Villages of Gadag district, ICAR-K.H.Patil Krishi Vigyan Kendra, 12p

10.B. Details of Electronic Media Produced

Sl.	Type of media	Title	Details
No. 1	CD / DVD	Sahakar Radio Gadag (Community Radio Station of KVK)	About Sahakar Radio Gadag. Type of programmes broadcasted through Radio.
		Improved Agronomic Practices	Lecture on Improved Agronomic Practices for higher productivity in Greengram
2	Mobile Apps	-	-
3	Social media groups with KVK as Admin	WhatsApp – • KVK, HULKOTI, GADAG group • Cashew Growers group • Mango Growers group • GADAG FPO's • Nutri-Garden farmers • Dairy entrepreneurs : KVK	2876 members
4	Facebook account name	KhpKvkHulkoti	519 followers
5	Instagram account name	KVKGadag	80 followers
6	Twitter Account	ICAR-KVK Gadag	59 followers
7	Youtube Account	K.H.Patil Krishi Vigyan Kendra Hulkoti	4740 subscribers

10.C. Success Stories / Case studies

i) Doubling of Income of Blackgram Farmer:

Shri Mruthunjaya S. Malimath of Akkigunda village in Shirahatti block is one of the young farmer who participated in CFLD-Blackgram programme under NFSM Project of KVK during 2022-23. He was very enthusiastic to adopt improved technologies to address productivity constraints in Blackgram. He used to cultivate Local Blackgram variety. Incidence of wilt, thrips and powdery mildew were the major problems that affected the yield to the extent of 40-45 percent. Apart from this, there was also knowledge gap in management of pod borer and nutrient application. Demonstration was laid out in his farm under the supervision of KVK Scientists. Details of technologies demonstrated were use of high yielding and wilt tolerant variety (DBGV-5), seed treatment with trichoderma and bio-fertilizers. Local check was also laid out adjacent to the demonstrated plot. Shri Mruthunjaya adopted all the suggested technologies related to sowing method, seed rate, nutrition, intercultivation and management of pod borer. KVK Scientists periodically visited his plot and gave him timely suggestions. As a result of this, a very good crop was raised and all the farmers in the village visited this plot and learnt about the technologies adopted. The performance of demonstrated plot against local check is given below.

	Performance of technologies in demonstration						
				_		Yield gap (q/ha) over	
	Yield (Q	/ha)	Net returns (Rs./ha)			check	
Demo	Check	%	Demo	Check	%		
Demo	OHECK	increase	Demo	Cileck	increase	2.91	
9.24	6.33	45.97	33288	17996	84.97		

Thus farmer could get 45.97 per cent increased yield and 84.97 per cent increased net income. His net income was almost doubled. Potential yield of the variety was achieved. This yield was 3 times the yield of State and District average.



KVK Scientist interacting with Blackgram farmers



Field day organised on farmers' field

ii) Intercropping System for Enhancing Farmers Income:

Shri Heggappa N. Gudami of Singatarayankeri village in Mundaragi block is one of the farmers who participated under NICRA project of KVK during 2022-23. He adopted Maize+Redgram, a new technology to address the productivity constraints in Maize. He used to

cultivate Maize as a sole crop, but due to moisture stress, incidence of fall army worm and turciccum leaf blight, the yield of Maize was very low and net returns was also less. Hence, through KVK guidance he adopted Maize+Redgram intercropping system in Kharif, 2022 and followed ICM practices as advised by KVK Scientists like medium duration TS-3R variety





of Redgram crop, seed treatment with bio-fertilizers, trichoderma, nipping, foliar spray of pulse magic etc. The farmer managed fall army worm and turciccum leaf blight in Maize. As a result of this, bumper crop was raised in intercropping system as compared to sole crop of Maize.

The neighboring farmers visited the demonstration plot and learnt about the different technologies adopted in his field. The results of

the demonstration plot against local check is given below.

Performance of technologies							
Yield (Q/ha)			Net	returns (Yield gap (q/ha) over check		
Demo	Check (Maize as sole crop)	% increase	Demo	Check	% increase	CEY of Maize:	
CEY of Maize:67.50 Maize : 49.50 Redgram: 7.50	54.75	23.28	90375	69750	29.56	12.75	

The farmer could get 23.28 percent increase in yield and 29.56 percent increase in net returns as compared to local. Hence, this intercropping system helped the farmer to gain more income.

iii) High Density Planting in Cashew- A Novel Approach for Doubling Farmers Income:

Mr. Basavaraj Halli is native to Shagoti village of Gadag block in Gadag District. He used to cultivate spreading groundnut crop in his 3 acres of land. Due to frequent occurrence of drought

coupled with high cost of cultivation, he could not get sustainable income from groundnut cultivation. The red soil with poor moisture holding capacity restricted him to take up only one crop in a year during *kharif* season. Mr.Halli has decided to plant Cashew crop in his 3 acres of land during 2017. Grafts were supplied by Directorate of Cashewnut and Cocoa Development, Cochin with 3 years of financial



assistance under Cashew Promotion Scheme. With the guidance of KVK, Gadag, he has planted 480 grafts of cashew at 5m × 5m (HDP) spacing. Latest technologies in soil and water conservation,



Pruning and training of plants, Drip irrigation system and fertigation techniques for efficient utilization of water and nutrients, timely Integrated Pest and Disease Management (IPDM) were practiced by him under KVK guidance. As a result, Yield of raw cashew doubled every year and in 2021, he harvested 14.50 quintals of raw nut. He

has undertaken Banana as intercrop in cashew for initial 3 years under protective irrigation and earned Rs.1.50 lakhs from Banana crop. Income of the farmer has increased by 410 % since he has taken up cashew planting. More than 600 farmers from various districts of Karnataka visited his cashew orchard. The farmer got Best Cashew Farmer Award in Cashew cultivation on 30-01-2023 by Directorate of Cashew and Cocoa Development Board, Cochin during National Conference of Cashew at Bhubaneshwar, Odisha.

iv) Successful Dairy Unit of a Youth

Every unemployed youth should learn from Mr. Sharanappa S. Nagavimath of Kurtakoti village in Gadag taluk. MrSharanappa, who studied upto Diploma is a successful dairy entrepreneur. He has an ancestral land of 5 acres. He used to cultivate field crops viz., Bengalgram, Jowar, Sunflower etc. Due to frequent occurrence of agricultural drought, income from the agriculture was not sufficient to meet his family needs. He thought of starting the dairy unit for getting additional income. But the main issue for him was guidance and support.



During 2020-21, he participated in the dairy training organised by SBI-ASF-RSETI, Hulkoti in



collaboration with KVK Hulkoti. He discussed with the experts about his dream project of dairy. KVK provided him the necessary guidance and support. Mr. Sharanappa spent Rs.3.5 lakhs for construction of dairy shed. Initially he purchased 1 she Buffaloe from Gadag Animal Market. After 2 months, he again purchased 2 she Buffaloes, later after 6 months he bought 5 Buffaloes.

Totally He has purchased 8 she buffaloes including heifer in a span of 1 year period and was getting sustainable income from milk production of 7 liters / day / buffaloe.

Among 8 she buffaloes only 6 were milking and daily milk collection was 40-42 litres. He sells the milk in the Kurtakoti village. He says that, he gets price of Rs.40 per litre for Buffalo milk. Monthly he spends Rs.15,000 towards purchase of animal feed and for transportation of milk from his dairy farm to village. He says that he gets gross income of Rs.42,000/- from sale of milk per month and his net monthly income is around Rs.27,000/-.



This is one of the good example of how a youth plunged into dairy enterprise in drought prone area succeeded by utilising existing resources. When asked about his future plan, he says that he would extend the unit to 20 animals in next two years.

v) Agriculture Graduate became Entrepreneur

Smt. Mangala Kiran Neelagund is an agriculture graduate from



University of Agriculture Sciences, Dharwad. She is resident of Mulgund which is 20 kms from Gadag city as well as KVK Campus. Initially, she took the responsibility of nurturing her



children and family and her husband to take care of business and agriculture farm. Once the children grew up she got involved in agriculture works with more focus on entrepreneurship. From the beginning, she wanted to start sheep and goat rearing enterprise but because of family tradition her father-in-law did not allow her to start the enterprise. Slowly she convinced her in-laws and she started the dairy enterprise and sheep and goat rearing unit in 2016, under the technical guidance of ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti.

Later in 2021, under the technical guidance of ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti she established chilli processing unit under one district one product (ODOP) programme. She had marketed more than 10 quintals of organic chilli powder, turmeric and chilli value added products worth of Rs.8.00 lakhs. Under Entrepreneurship Development Programme, KVK facilitated her to get FSSAI Registration as



well as Udyan Registration. In addition, the product label designing with all the technical information was



facilitated by KVK. She started marketing of chilli products through local shops, exhibitions and her friends. The chilli products got popularized because of their quality, colour and taste. Then, she contacted Karnataka State Department of Agriculture, Gadag and established chilli pounding machine. Then, her works became easy and she provided employment to

5 women during season. She participated in Zonal Workshop of KVKs of Zone-11 organised by ICAR-ATARI, Bengaluru and UAS, Dharwad and exhibited chilli products. From then her products got more popular as orders started pouring in from many places.

The economic details of Chilli enterprise was given below:

		Income	Expenditure				
Year	Product name	Quantity produced (qtls.)	Market rate/kg (Rs.)	Total (Rs.)	Raw materials & other expenses (Rs.)/ kg.	Total expenses (Rs.)	Net income (Rs.)
2021-22	Red chilli powder	1.50	450	67500	300	45000	22500
	Masala chilli powder	0.20	600	72000	450	19000	3000
2022-23	Red chilli powder	10.00	600	600000	500	500000	100000
	Masala chilli powder	0.50	600	30000	500	26000	5000

Within a span of 3 to 4 months, she earned a net income of Rs.1,00,000 from the chilli enterprise. To handhold other women in her surrounding, she established Unnati Mahila Samaja Seva and Multipurpose Society at Mulagund village comprising of 150 women members. Among them, she created employment opportunities for 25 women entrepreneurs in



packing and marketing of products like Ethnic sweets, crisp roties, kumkum, papads and sandige. By seeing her success many organizations have awarded her with honors and certificates. The details are enclosed.

SI No	Award Name	Year of	Field	Level of	Awarding body
NO		Award		award	
1	Taluk Level best Farmer Award	2020	Integrated Farming System (IFS) and Entrepreneur	Others	Agriculture Department under ATMA Scheme
2	Best Women Farmer Award	2021	IFS, Goat Farming and Entrepreneur	Others	ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti
3	Raitha Ratna Award	2021	IFS, Goat Farming, SHGs and Entrepreneur	Others	Irkal Mutt, Raichur
4	Raitha Ratna Award	2022	Integrated Farming System	State	Krushika Samaja, New Delhi
5	Recognition Award for outstanding contribution	2022	Women Agriculture Entrepreneur & IFS	State	Kissan Pragati Award Outgrow Organisation, Bangalore
6	Shresta Krishi Mahila Award	2022	Women Agriculture Entrepreneur	State	University of Agricultural Sciences, Dharwad

Smt. Mangala is identified as Innovative Farmer and DFI Farmer by ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti and UAS, Dharwad during 2021-22.

By seeing the demand and the successful venture, now she is thinking of establishing large scale chilli processing unit. Hope this year her dream may come true.



vi) Enhancing Livelihood through Food Processing Enterprise

Smt. Shamala Ellaraddi Karuru aged 43 is resident of Binkadakatti village in Gadag block which is 8 kms away from K.H.Patil Krishi Vigyan Kendra, Hulkoti. She is SSLC passed and looking



after SHGs organized by KSRLPS under NRLM for the



last 7 years. She works as Main Book Keeper (MBK) at her own village and looking after 20 SHGs. Her husband supplies newspapers to families and he owns 2 acres of dryland. The income they got from both works was not sufficient to meet the livelihood needs of the family as her son is a handicapped. Meanwhile, during her free time she used to prepare ethnic sweets and marketing through exhibitions and local consumers. She visited KVK for attending training organized by ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti under National Rural Livelihood Mission. By seeing the interest, KVK selected her as entrepreneur for the Entrepreneurship Development Programme for the year 2021-22.

During 2020-21, under ODOP the chilli crop had been identified for Gadag district. Smt.Shamala in her 2 acres land used to cultivate red chilli. She showed interest in marketing of chilli products rather than selling dried red chillies. She realized that marketing of chilli products will

give more training at of chilli licensing FSSAI materials, marketing.



income. Accordingly she attended 3 days KVK during January, 2022 on preparation value added products, packing, labeling, and marketing. KVK later facilitated her in licensing and provided packaging helped her in designing of labels and The products were neatly packed in

standup pouches with attractive labels.

		Income	Expenditure				
Year	Product name	Quantity produced (qtls.)	Market rate/kg (Rs.)	Total (Rs.)	Raw materials & other expenses (Rs.)/ kg.	Total expenses (Rs.)	Net income (Rs.)
2021-22	Red chilli powder	2.00	450	90000	250	50000	40000
	Masala chilli powder	0.25	600	15000	450	11250	3750
2022-23	Red chilli powder	3.00	600	180000	500	150000	30000
	Masala chilli powder	0.50	600	30000	500	25000	5000

She started marketing the chilli products through KVK sales outlet, local shops, off shoot

marketing, exhibition etc., Apart from chilli products, she purchased small flour mill and prepares turmeric powder and other products. Thus she could add additional income of Rs.40,000 to Rs.50,000 to her family to meet the livelihood needs of the family. Her daughter and her husband also support in production and packing of chilli products. She gives credit to KVK for the technical support and hand holding by KVK Scientist in her entrepreneurship journey.



10.D. Give details of innovative methodology or innovative approach of technology developed and used during the year

I) TECHNOLOGY TRANSFER THROUGH COMMUNITY RADIO STATION

In order to disseminate the technologies to the farming community in an effective manner, Community Radio Station (FM 89.6) has been started at KVK, Gadag. This radio station covers all the blocks of Gadag District covering a radius of 60 km around KVK. An android app has also been developed which can be installed in smart phones and the programmes can be listened from any part of the world. Number of radio talks related to crop production technologies, animal husbandry, soil and water conservation, entrepreneurship development in agriculture, dryland horticulture and agricultural mechanization were given by the scientists. Apart from this, daily weather forecast is also being broadcasted every day which helps farmers to take decisions in various field operations.

List of radio talks broadcasted are given below

- 1. Nano Urea: Importance and Uses
- 2. Integrated Crop Management practices in different kharif crops for higher productivity
- 3. Improved practices in Chickpea cultivation
- 4. Integrated Crop Management in Bt. Cotton cultivation
- 5. Integrated Crop Management in Rabi Sorghum cultivation
- 6. Natural Farming Practices
- 7. Importance of Soil in Agriculture
- 8. Cultivation of Cashew in Dryland Horticulture
- 9. Cultivation of Mango in Dryland Horticulture
- 10. Entrepreneurship in Food Processing Sector
- 11. Use of Renewable Energy Sources in Agriculture
- 12. Drone Sprayer and its Utility
- 13. Malnutrition and Importance of Balanced Diet
- 14. Agri Nutri Garden
- 15. Disease Management in Dairy Animals
- 16. Scientific Dairy Farming
- 17. Resources for Poultry Farming
- 18. Rain Water Harvesting Practices
- 19. Kisan Sarathi
- 20. Use of ICT in agriculture
- 21. Calf a year
- 22. Animal reproduction and its importance

- 23. Importance of Artificial Insemination and causes of reproductive diseases
- 24. Animal Husbandry in Organic Farming
- 25. Lumpy Skin Disease
- 26. Animal based Integrated Farming System
- 27. Foot and Mouth Disease
- 28. Azolla Production

II) TRANSFER OF TECHNOLOGY THROUGH VIRTUAL MODE

Farmersface various problems in crop cultivation. It is very difficult to reach the farmers physically to address their problems with limited human resource in the KVK. Hence, interactive audio conference (Group calling), video conference and online trainings were conducted to disseminate the technologies and to provide timely suggestions with respect to production of different crops to farmers of various villages in the district. KVK has also formed WhatsApp groups of different crop growers and timely messages are being sent to these groups.

Video conferences, You Tube Live streaming and Audio conferences were also held for various crops. Thus, the TOT through virtual mode is enabling KVK scientists to reach more number of farmers.

10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
1	Crops	To reduce the infestation of weed i.e Cyprus rotundus, the farmers practice weekly harrowing throughout the end of rainy season i.e from April to October. Then they will take up Rabi Sorghum crop.	Every week harrowing with blade goes on cutting the fresh sprouting meristems of the weed Cyprus rotundus. This weekly cutting results in exhausting of the nutrients present in the bulbs of weeds and no chance for photosynthesis by leaves. Hence, the roots get deprived of the fresh photosynthates on one hand and on other the stored energy gets lost due to growth of fresh meristems every week, but they get cut off with harrowing blade. Thus, the weed has no chance of re-growth when weekly harrowing is done regularly from April to October.	The weekly cutting results in exhausting of the nutrients present in the bulbs of weeds and no chance for photosynthesis by leaves. Hence, the roots get deprived of the fresh photosynthates on one hand and on other the stored energy gets lost due to growth of fresh meristems every week, but they get cut off with harrowing blade. Thus, the weed has no chance of regrowth when weekly harrowing is done regularly from April to October
2	Livestock	Turmeric powder mixed in ghee, heated and applied	For the healing of wound	Turmeric has got anti microbial properties.
3	Livestock	Washing of hoves of	For the treatment of foot and	Lime has antiseptic

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
		animals with lime water	mouth disease	property. It kills germs and healing is fast.
4	Livestock	Zeera & Garlic are boiled in water and is fed	For the treatment of fever	Act as anti cold& fever.
5	Livestock	 Tobacco shoot with Kerosine oil paste is made and applied Leaves of neem or neem oil 	For the treatment of ecto parasite infestation	Tobacco contain nicotine that kills ecto parasite. Neem has got ectoparasiticadal properties.
6	Livestock	Feeding of Brinjal 1 Kg/day for 10 days to dairy animal	Reduced high temperature stress leads the dairy animals come into heat	Potassium content is more in Brinjal. So Potassium helps to reduce high temperature stress.
7	Livestock	Feeding of handful of curry leaves to dairy animals / day for 10 days after Al done.	Increased percentage of conception rate	They are rich in Proteins, Phosphorus, Calcium, Iron, Folic acid, Vitamins like A,B,C & E and these help in higher percentage of conception.

10 F. Technology Week celebration:

Period of observing Technology Week: From 23-01-2023 to 28-01-2023

Total number of farmers visited :7500

Total number of agencies involved : 1

Number of demonstrations visited by the farmers within KVK campus: 6

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Lectures organized	3	220	Lectures organized on crop & dairy technologies
Exhibition	1	7500	Both crop and livestock technologies
Film show	1	40	Nutri Garden
Fair			
Farm Visit	3	152	Rabi crops, Livestock, Agricultural Machineries
Diagnostic Practicals	3	87	Method demonstration on use of Phermone traps, spray of Pulse Magic & solar operated sprayer
Supply of Literature (No.)	8	6400	Crop technology& others
Supply of Seed (q)	3.12	6	Groundnut seeds
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	12.5	6	Earthworms& Azolla
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week		7500	

10 E. Recognition and Awards: Nil

PART XI – SOIL AND WATER TEST

11.1 Activities of Soil and Water Testing Laboratory

A. Status of establishment of Lab : 2005-06

1. Year of establishment : 01.07.2005
2. List of equipments purchased with amount :

SI. No	Name of the Equipment	Qty.	Cost
110	A) Non-recurring contingency		
1	Spectrophotmeter	1	0.60
2	Flame photometer	1	0.50
3	pH meter	1	0.10
4	Conductivity bridge	1	0.10
5	Physical balance	1	0.10
6	Chemical balance	1	1.00
7	Water distillation still	1	1.00
8	Orbital shaker	2	0.60
9	Shaker	2	0.50
10	Refrigerator	1	0.20
11	Oven with optional attachments	1	0.15
12	Hot plate with all models	1	0.25
13	Grinder with motor	1	0.30
14	Laboratory set up (all basic facilities)		3.20
15	PUSHA STFR meter Kit	1	0.75
16	MRIDAPARIKSHA	1	0.903
	Total (A)		10.253
	B) Recurring contingency		
1	Chemical &glasswares		3.50
2	Miscellaneous items		0.20
3	Soil and plant sample processing and storage facility		0.50
	Total (B)		4.20
	Grand Total (A+B))		14.453

B. Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	10973	24275	362
Water Samples	5618	5396	ű
Plant samples	116	116	ű
Manure samples	-	-	-
Others (specify)	=	-	-
Total	16591	29787	362

C. Details of samples analyzed :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	523	1367	58
Water Samples	227	218	41
Plant samples			
Manure samples			
Others (specify)			
Total	750	1585	58

11.2 Mobile Soil Testing Kit:

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1. PUSA SFTR meter kit	22-02-2016	Working
1. MRIDA PARIKSHAK	31-03-2017	Working

B. Details of soil samples analyzed and since establishment with Mobile Soil Testing Kit:

	During 2021	During 2022	Cumulative progress (Total)
Samples analyzed (No.)	325	253	1813
Farmers benefited (No.)	909	654	5288
Villages covered (No.)	6	5	28

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	1 st April, 2022 to	53	713	270	713
	31 st March, 2023				
Mobile Soil Testing Kit	1 st April, 2022 to	5	654	253	654
	31 st March, 2023				

11.4 World Soil Health Day celebration

SI. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	122 farmers + 204 students	115	-	-	10	2

PART XII. IMPACT

12.A. Impact of KVK activities (Not restricted for reporting period)

Name of specific	No of	No. of % of		Change in income (Rs.)		
technology/skill transferred	participants adoption		Before (Rs./Unit)	After (Rs./Unit)		
Nipping in Bengalgram	160	50	Rs.22,500/ha	Rs.29,800/ha		
Feeding of Silage Fodder	130	24	Rs.15,066/	Rs.19,576/		
to CB Cows	130	24	lactation/cow	lactation/cow		
Mango special (micronutrient mixture) application	86	80	Rs.80,000/ha	Rs.1,20,000/ha		
Introduction of Arka Prasanna improved variety in Ridegourd crop	37	55	Rs.83,000/ha	Rs.1,25,000/ha		
Azolla as animal feed	150	35	Rs.9300/cow /lactation	Rs.13287/cow / lactation		
Use of ISF-764 variety of Safflower along with ICM Practices	154	80	Rs.25,000/ha	Rs.35,000/ha		
Use of Arka Vegetable special for micronutrient management in vegetables	60	55	Rs.67,000/ ha	Rs.79,000/- ha		
Use of Chickpea Magic for foliar spray in Bengalgram	1000	90	Rs.75,000/ha	Rs.93750/ha		
Use of DGGV-2 variety of Greengram along with ICM Practices	533	40	Rs.58900/ha	Rs.77500/ha		
Fruit fly traps for management of Mango and Guava fruit fly	25	50	Ra.80,000/ha	Rs.100000/ha		

12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs)

i) Large scale adoption of DGGV-2 variety of Greengram

Greengram is the important pulse crop of Gadag District, mainly cultivated under rainfed conditions during kharif season. It is being grown in an area of 1,20,000 ha. The productivity of the crop was very less due to decreasing yield potential of Selection-4 and Shining Moong varieties cultivated by the farmers. From 2016-17 onwards, KVK started promoting DGGV-2, a high yielding variety of Greengram which is suitable for mechanical harvesting as well. Integrated Crop Management Practices were also demonstrated in DGGV-2 variety of Greengram. Since 2016-17, KVK has organized Front Line Demonstrations in 245 hectares of area covering 612 farmers. The demonstrations were organized under KVK's FLD programme as well as Cluster Front Line Demonstration under NFSM programme. The demonstrations have been very successful as there was increase in yield by 24 %.

Seven years of demonstration programme has produced more than 2600 quintals of seed material which the FLD farmers supplied to the other farmers. Apart from this, KVK has also produced 89 quintals of

DGGV-2 variety and supplied to the farmers from various villages of the District. Thus the variety has reached to most of the villages in the district and resulting in enhanced productivity.

ii) Large Scale Adoption of ISF-764 variety of Safflower

Safflower being one the prominent oilseed crop is grown during rabi season under rainfed condtion in Gadag. The crop is being grown in an area of 4500 ha in the District. The productivity of the crop was less due to decreasing yield potential of A-1 variety. ISF-764 variety was promoted by KVK, Gadag for higher yield and productivity. Since 2016-17, KVK has organized Front Line Demonstrations in 106 hectares of area covering 265 farmers. The demonstrations were organized under KVK's FLD programme as well as Cluster Front Line Demonstration under NFSM Oilseeds programme. The demonstrations have been very successful as there was increase in yield by 21.8 %.

750 quintals of seed material was produced by demonstration for 7 years. Apart from this, KVK also produced 140 quintals of seeds and supplied to the farmers. Thus the productivity of crop has been enhanced considerably.

iii) Large scale adoption of JAKI-9218 variety of Bengalgram crop:

Bengalgram is the important Pulse crop of Gadag district, mainly cultivated under rainfed situation. It

is being grown in an area of 75,000 ha. The productivity of the crop was very less due to decreasing yield potential of Annigeri-1 and JG-11 varieties cultivated by the farmers. From 2014-15 onwards, KVK started promoting JAKI-9218, a high yielding variety. Integrated





Crop Management practices were also demonstrated along with JAKI-9218 variety. From 2014-15 to 2022-23, KVK organised Front Line Demonstrations in 402 hectares of area covering 665 farmers and farm women. The demonstrations were organised under KVK's FLD programme as well as Cluster Front Line Demonstration under NFSM programme. The demonstrations have been

very successful as there was 20-25 percent increase in yield.

Nine years of demonstration programme has produced 4700 quintals of seed material which FLD farmers supplied to other farmers. Apart from this, KVK produced 116 quintals of JAKI-9218 variety and supplied to farmers.

There was heavy demand for the seed and KSSC took up seed production and supplied more than 10800 quintals of seeds during last four year period. Thus, JAKI-9218 variety is spread in nearly 70 percent of total area cultivated in Gadag district.

iii) Adoption of Chickpea magic

Chickpea Magic is a nutrient consortium which contains macro and micro nutrients along with growth regulators for chickpea crop. It reduces the flower dropping and increases pod formation thereby the yield of chickpea will be enhanced significantly. The chickpea magic was procured by KVK Gadag and tested during 2018-19. After getting good results, wide publicity was given about its utility through newspaper articles, radio talk and by distributing pamphlets in various melas. During 2021-22, about 200 packets of Chickpea magic were supplied which accounts to the spread of 160 ha. There was a positive response from the farmers who used the product. As a result, during 2022-23, the technology was spread to around 1052 ha wherein 2000 packets were sold to the farmers.

12.C. Details of impact analysis of KVK activities carried out during the reporting period :

IMPACT ANALYSIS OF SPV-2217 VARIETY OF RABI SORGHUM ALONG WITH ICM PRACTICES

INTRODUCTION

Rabi Sorghum is an important cereal crop cultivated predominantly under rainfed situation during Rabi season in Gadag District. It occupies 10-15 per cent of the total cultivable area. The average productivity of crop decreased from 12 Qtls./ha during last decade to 8 Qtls/ha during current decade.

The major reasons for decreased productivity are use of local low yielding variety M-35-1, incidence of stem rot disease and lodging problem. Farmers expressed helplessness in finding solution to the problems faced in the cultivation of Rabi Sorghum.

KVK INTERVENTIONS

ICAR-KVK, Gadag has then introduced high yielding and charcoal stem rot resistant SPV-2217 variety of Rabi Sorghum crop with ICM practices since 2017-18 in KVK and NICRA project adopted clusters of villages. Demonstration of ICM practices such as seed treatment with Azatobacter, Azospirillum& PSB and Seed priming with CaCl₂ were demonstrated. Moisture stress, zinc and sulphur nutrition problems were addressed by demonstrating compartmental bunding and application of zinc sulphate.

SPV-2217 variety of Rabi Sorghum was demonstrated in an area of 228 ha covering 570 farmers in a span of six years.





In addition to this, KVK has also taken up production of SPV-2217 seeds and made available 28.50 qtl of seeds benefiting 575 farmers. Programmes implemented by KVK year-wise in popularizing SPV 2217 variety of Rabi Jowar with ICM practices is presented in Table 1.

Table 1.: Details of Demonstration of SPV-2217 Variety of Rabi Sorghum with ICM Practices

SI.	Year	Area	No. of	Culster villages
No		(ha.)	farmers	
1.	2017-18	40	100	Kochalapur, Mahalingpur, Madolli&Binkadakatti
2.	2018-19	40	100	Mahalingpur, Bevinakatti, Hiremannur, Gangapur
۷.	2010-19	40	100	&Ranatur
3.	2019-20	40	100	Mahalingpur, Kalakeri, Chikkasavanur and Shirol
4.	2020-21	42	105	KalakeriChikkasavanur, Mahalingpur and Shirol
5.	2021-22	30	75	Mahalingpur, Chikkasavanur and Shirol
	2022.22	20	00	Mahalingpur, Halligudi, Akkigund, Muganur and
6.	2022-23	36	90	Asundi
TOTAL 228 570			570	

DETAILS OF TECHNOLOGIES DEMONSTRATED

SPV-2217 variety of Rabi Sorghum was demonstrated with following technologies:

- Seed treatment with Bio-fertilizers (PSB, Azospirillum&Azatobacter) which facilitates drought tolerance in crops through the supply of nutrients.
- Seed priming with Calcium Chloride @ 2% to enhance germination percentage, to improve the crop vigour and to induce drought tolerance to the crop.
- Demonstration of compartmental bunding for *in-situ* soil moisture conservation.
- Application of zinc sulphate to combat zinc and sulphur deficiency.

ECONOMIC PERFORMANCE OF DEMONSTRATION

KVK demonstrated SPV-2217 variety of Rabi Sorghum along with ICM practices in adopted clusters of villages by KVK as well as under NICRA project during 6 years period. From Table:-2, it can be observed that farmers obtained yield of 12.99 qtl./hafrom cultivation of SPV-2217 variety as against 10.62 qtl./ha in local check. An increase of 22.73 per centin yield was realized. Adoping ICM practices along with SPV-2217 variety of Rabi Sorghum has resulted in net additional returns of Rs. 10,415per hectare with an average increase in net income of 44.60%.

Table 2. Economic performance of SPV 2217 variety of Rabi Jowar with ICM Practices

SI.	Year Area (ha.)	a No. of	Yield (qtl/ha)		Increase in yield	Net Income (Rs./ha)		Increase in	
No		(ha.)	farmers	Local	Demo	(%)	Local	Demo	Income (%)
1.	2017-18	40	100	9.95	12.03	20.90	16200	23020	42.10
2.	2018-19	40	100	5.11	6.55	28.20	16110	23060	43.15
3.	2019-20	40	100	8.42	9.65	14.60	16470	24410	48.20
4.	2020-21	42	105	9.91	12.52	26.33	16950	24190	42.60
5.	2021-22	30	75	12.8	16.16	26.25	18280	26470	42.70
6.	2022-23	36	90	17.5	21.02	20.11	18000	27150	48.80
TO	TAL/AVG.	228	570	10.62	12.99	22.73	14301	24716	44.60

SPREAD OF TECHNOLOGY TO OTHER FARMERS:

As a result of KVK interventions through Front Line Demonstrations, Capacity Building Programmes and extension programmes, there has been a spread of the technology in more than 2500 ha. of area including area under demonstrations during last four years. The spread



has been noticed mainly in KVK adopted clusters of villages. Farmers also expressed happiness



over the yield levels of SPV 2217 variety. Quality of Rotis made from the flour of demonstrated variety was also superior when compared to other varieties. This indicates that farmers have been convinced about the profitability of the demonstrated variety and ICM practices. During 2022-23, SPV-2217 variety was spread in 2500 hectares. Thus, it

has contributed considerate net income to the district farmers.

ORGANOLEPTIC EVALUATION OF RABI SORGHUM VARIETIES:

SI. No	Parameters	M 35-1	SPV-2217
1	Color of roti	II	1
2	Taste of roti	II	
3	Stickiness of dough	II	
4	Non-watery texture of dough	II	I
5	Overall acceptability		I

M 35-1





SPV-2217

CONCLUSION

Demonstration of SPV-2217 variety of Rabi Sorghum along with ICM practices has created a tremendous impact in Gadag District in terms of increased yield and net returns. Front Line Demonstration, Trainings and Extension activities conducted by KVK in the adopted cluster of villages covering an area of 228 ha and 570 farmers has given fruitful results in spreading of SPV-2217 variety. Farmers have been convinced about the profitability of new variety as good net returns were achieved in a span of six years from 2017-18 to 2022-23. There has been a spread of technologies in about 2500 ha. in last six years and these farmers got increased net returns by about 44.60%. Thus the demonstrations had a huge impact in improving the income of farmers in rain shadow district of Gadag.

PART XIII - LINKAGES

13.A. Functional linkage with different organizations

Name of organization	Nature of linkage
University of Agricultural Sciences, Dharwad	 DAESI programme for input dealers Krishi Sakhi programme Technical back-stopping
Karnataka State Department of Agriculture	Training programmes, Workshops & serving as Resource Persons in different schemes, joint organisation of extension activities
Karnataka State Department of Horticulture	Capacity building training programmes under NHM Scheme
Department of Animal Husbandry and Veterinary Services	Organisation of Trainings/Workshop on Livestock Management
Rural Development and Panchayat Raj University, Gadag	Facilitation and guidance for students belonging to different disciplines of RDPR University, Gadag
Reliance Foundation	Capacity Building Programme for FPOs and advisory services for farmers
Shree Kshetra Dharmastala Rural Development Foundation	Training programmes for SHG Members and participation as Resource Person

13.B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)	
-	-	-	-	

13.C. Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes If yes, role of KVK in preparation of SREP of the district?

KVK provided input on problem identification , prioritization, researchable issues and strategies / technologies for different agro-eco systems in the district

Coordination activities between KVK and ATMA:

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	KVK-ATMA Intefernce Meetings and ATMA Steering Committee meetings	2	4	-

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
02	Research projects	Assessment of Improved Bunch Groundnut varieties for higher productivity under Irrigated situation in Rabi-Summer season Assessment of ISF-764 and A-2020 varieites of Safflower for higher productivity Assessment of NBeG-49 and Phule Vikram varieties of Bengalgram for higher productivity under irrigated situation Upgradation of local sheep with Nari Suvarna Ram for high productivity of meat	-	-	Jointly organised with ATMA
03	Training programmes	 ICM in Kharif & Rabi crops Post Harvest Technology Farmers' Producers Organisation Integrated Farming System Health, nutrition and terrace garden 	-	10	Jointly organised with ATMA
04	Demonstrations	ICM practices in Bengalgram	-	4	Jointly organised with ATMA
05	Extension Programmes		12	7	Jointly organised with ATMA
	Kisan Mela		-	1	Jointly organised with ATMA
	Technology Week		1	1	Jointly organised with ATMA
	Exposure visit		-	-	
	Exhibition		-	-	-
	Soil health camps		-	-	-
	Animal Health Campaigns		-	-	-
	Others (Pl. specify)		-	-	-
	Field Day		4	2	Jointly organised with ATMA
	Jal Shakti Abhiyaan		4	2	-

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	World Food Day		-	-	-
	International Womens' Day		-	-	-
	World Soil Health Day		1	1	Jointly organised with ATMA
	Farmers' field school	-	-	•	-
	Farmer-Scientist Interaction Meet	-	-	2	Jointly organised with ATMA
06	Publications				
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension	<u>_</u>	_	_	_
	Literature	_		_	_
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (PI. specify)				

13.D. Give details of programmes implemented under National Horticultural Mission: NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

13.E. Nature of linkage with National Fisheries Development Board : NIL

	i italaio oi iiiikag	tatale of linkage with rational floriories bevolephiont board : Itiz										
S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks							

13.F. Details of linkage with RKVY: NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

13G. Kisan Mobile Advisory Services

Month	Message			SMS/voice	calls sen	t (No.)		Total	Farmers
	type (Text/Voice)	Crop	Livest ock	Weather	Marke ting	Awaren ess	Other enterpri ses	SMS/ Voice calls sent (No.)	(No.)
April 22	Text	0	0	1	1	0	0	2	1280
May 22	Text	1	0	1	0	2	0	4	1284
June 22	Text	1	0	1	0	0	1	3	1286
July 22	Text	1	1	2	1	1	0	6	1286
August 22	Text	2	0	3	0	0	0	5	1286
September 22	Text	2	1	2	0	0	0	5	2850
October 22	Text	2	0	2	1	0	1	6	2850
November 22	Text	2	0	2	0	1	1	6	2855
Decemer 22	Text	1	0	2	2	0	1	6	2865
January 23	Text	2	0	2	1	0	0	5	8210
February 23	Text	1	1	1	1	1	0	5	8200
March 23	Text	2	1	1	0	1	0	5	8200
Total		17	4	20	7	6	4	58	42452

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

14.A. Performance of demonstration units (other than instructional farm)

SI. No.	Demo Unit	Year of establi shment	Area (ha)	Details of production			Amoun	t (Rs.)	Remar
				Variety	Produce	Qty.	Cost of inputs	Gross income	ks
1	Green House	2007	250 sq.ft	Alphanso Mangoes	Grafts	500	4000	10000	
2	Green House	2007		Chilli- Byadgidab bi	Seedlings	5000	1250	5000	

14.B. Performance of instructional farm (Crops) including seed production

Name of the				Details of	of production		Amoun	t (Rs.)	
Name of the crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Rabi Jowar	02.11.22	10.03.23	3.2	SPV-2217	Seeds	12.0	12500	48000	
Millet Cafeteria: Pearlmillet, Foxtailmillet, Littlemillet, Browntop millet	23.07.22	12.11.22	1.0	VPMH-7 DHFt-109-3 DHLM.36-3 Local	Grains	4.0	4500	-	Crop failed due to excess rainfall
Pulses									
Greengram	06.06.22	18.08.22	5.6	DGGV-2	Seeds	30.0	30800	210000	
Blackgram	07.06.22	12.09.22	0.8	DU-1	Grains	3.75	8200	18800	
Bengalgram	03.11.22	16.02.23	2.8	JAKI-9218, DBGV-204	Seeds	21.0	28000	65000	
Oilseeds									
Groundnut	23.07.22	29.12.22	0.4	GJG-11	Seeds	3.0	11500	-	Crop failed due to excess rainfall
Fibers									

Name of the	Date of	f Doto of	Area	Details	of productio	n	Amoun	t (Rs.)	
crop	sowing	Date of harvest	(ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Spices & Planta	ation crops		•						
Cashew			1.20	Vengurla-4	Nuts	8.0	22000	94400	
Coconut	2018		4.00	Deejay sampoorna	Tender Nuts		35000	18500	
Coconut + Custardapple	2021		3.00	Kalpa surya, Kalpa jyothi, COD			8000	-	Planted 2 years back
Floriculture									
Fruits									
Tamarind			0.60	PKM-1 & DTS-1	Fruit	14.0	6500	55000	
Amla			0.60	NA-7, Krishna	Fruit	13.0	-	26000	
Mango			0.80	Alphonso	Fruit	-	23000	-	Crop failed
Tamarind + Mango + Amla	2021		8.0	DTS-1, Kesar, NA-7		-	11000	-	Planted 1 years back
Agroforestry	2020		0.8			-	3000	-	Planted 2 years back
Vegetables									
Onion	24.06.22	-	3.2	Bhima super	Bulb	-	50600	-	Crop failed due to excess rainfall
Others (specify)									

14.C. Performance of production Units (bio-agents/bio pesticides/bio-fertilizers etc.,)

	Name of the		Amoun	it (Rs.)	
SI.No.	Product	Qty	Cost of inputs	Gross income	Remarks
1	Vermicompost	152.0 Qtl	27500	60800	
2	Forthworms	0.93 Qtl	14200	22800	
	Earthworms	บ.ยือ นิแ	14200	22000	
3	Azolla	0.05 Qtl	1300	500	

14.D. Performance of instructional farm (livestock and fisheries production)

	Name of the animal / bird / aquatics	Details of production			Amou		
SI. No		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Buffaloes	Local	Milk	2537 lit	81919	86258	
2	Sheep	Rambullet local cross	Lamb	2 lamb	3500	10500	
3	Goat	Jamunapuri local cross	Kid	3 kid	6600	21000	

14E. Utilization of hostel facilities

Accommodation available (No. of beds): 30

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 22	0	0	-
May 22	76	17	-
June 22	50	13	-
July 22	16	9	-
August 22	0	0	-
September 22	32	9	-
October 22	0	0	-
November 22	131	17	-
Decemer 22	110	25	-
January, 2023	15	9	-
February, 2023	0	0	-
March, 2023	22	4	-

14F. Database management

S. No	Database target	Database created
1	OFT	Already maintained
2	FLD	Already maintained
3	Training database	Already maintained
4	Seeds & planting material	Already maintained
5	All Extension activities	Already maintained
6	Farmers visiting to KVK	Already maintained
7	Field visits	Already maintained
8	District database	Already maintained
9	Soil & water test details	Already maintained
10	Database on KVK (i.e regarding KVK details, host institute	Already maintained
	details, staff information, KVK land information, KVK	
	infrastructure, demo units, vehicle, office, lab, farm	
	equipment & library)	
11	HRD of KVK staff (i.e training/seminar/workshop attended	Already maintained
	by KVK staff)	
12	Publications of KVK activities in news papers	Already maintained
13	Villages covered by KVK since inception	Already maintained
14	Kisan mobile advisory services – Subscribers and	Already maintained
	messages sent	
15	Farm implements	Already maintained
16	Citizen's Client Charter	Already maintained

14.G. Details on Rain Water Harvesting Structure and micro-irrigation system

(a) Rain Water Harvesting Structure

Amou	Expe	Details of infras	tructure		Activiti	es conduc	ted		Quantity	Area
nt	nditu	created / micro		No. of	No. of	No. of	Visit by		of water	irrigate
sancti		irrigation syster	n etc.	Training	Demonst	plant	farmers		harvested	
on	(Rs.)			program	rations	materia	(No.)	` '	in '000	utilizati
(Rs.)				mes		ls .			litres	on
						produc ed				pattern
850000	850000	Graded bund	5054.6	6	2	0	185	17	340	4.0
		construction	8 cm							ha
		Construction of								
		waste weirs								
		1)1.52 feet	5 Nos.							
		crust length								
		2)1.83 feet	7 Nos.							
		crust length	4 NI							
		3) 2.44 feet	4 Nos.							
		crust length 4) 2.74 feet	3 Nos.							
		crust length	J 1105.							
		5) 3.00 feet	3 Nos.							
		crust length	01100.							
		Farm pond	2 Nos.							
		Infiltration wells								
		a)Infiltration	9 Nos.							
		Well	1 No.							
		b)Common tank								
		Bore well	1 No.							
		recharge pit								
		Sub surface	2 Nos.							
		dam								
		Soak pits	147							
		Check dam	1							

(b) Micro-irrigation systems :

Amount	Expendi	Details of				Quantity	Area			
sanctior (Rs.)	ture (Rs.)	infrastructure created / mic irrigation sys	ro	No. of Training program mes	No. of Demonst rations	No. of plant materia Is produc ed	Visit by farmers (No.)	Visit by officials (No.)	of water harveste d in '000 litres	d /
150000	150000	Drip irrigation system for Dry land Horticulture	5 Ha.	4	0	0	130	9	0	5 Ha.

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY): NIL

SI. No.	Name of			tility statu uster villa		Facilities created	Name of	Vari ety	Organic inputs	Yield q/ha)	Econo	omics
	cluster village	Aval. N	Aval. P	Aval. K	OC %	for organic source of manure	Crops cultiv ated		applied including bio-agents and botanicals treatment		Cost of cultivati on (Rs/ha)	Net returns (Rs/ha)

15.2 District Agriculture Meteorological Unit (DAMU): NIL

10.11	22 District righted victors of Section (Driving) Viving												
	Agro advisories			Farmers awareness programmes									
Sl No.	No of Agro advisories generated	No of farmers registered for agro advisories	No of farmers benefitted	No of programmes	No of farmers benefitted								
1													
2													
3													
4													

15.3 Fertilizer awareness programmeorganised

State	Name of KVK	Details of Activities/programmeOrganised	Number of Chief Guests	No. of Farmers attended program	Total participants

15.4 Seed Hub: NIL

Crops	Variety	Year of		Production								
		release	Target (q)	Area (ha.)	Actual Production (q)	Category (FS/CS)						
					_							

15.5 CFLD on Oilseeds:

	SI.	Varieties den	nonstrated &	Allo	ocated	Implemented			
No.	Crop	Che	eck	Area	Demos	Area (ha)	Demos		
NO.		Demo Check		(ha)	(No.)	Alea (lia)	(No.)		
1	Groundnut	Kadari Lepaxi	TMV-2	20	50	20	50		
	Total			20	50	20	50		

15.6 CFLDs on Pulses:

CI		Varieties der	monstrated &	Allo	cated	Implemented			
SI. No.	Crop	Ch	Check		Demos	Area (ha)	Demos		
140.		Demo	Check	(ha)	(No.)	Alea (lia)	(No.)		
1	Bengalgram	JAKI-9218	JG-11	10	25	10	25		
	Total			20	50	20	50		

15.7 Krishi Kalyan Abhiyan : NIL

Type of Activity	Date(s)	No	o. of farme (General)		No	o. of farme SC / ST	ers	No.of extension personnel		
Type of Activity	conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total

15.8 Micro-Irrigation

Type of Activity	Date(s)	No. of farmers (General)			No	o. of farme SC / ST	ers	No. of extension personnel			
Type of Adminis	conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Efficient use of water	07-11-2022	7	38	45	0	6	6	1	0	1	
Efficient use of water	19-11-2022	48	0	48	4	0	4	2	0	2	
Training programme on efficient use of fertilizer and water through drip irrigation	11-01-2022	49	0	49	11	0	11	15	0	15	

15.9 Tribal Sub-Plan (TSP): NIL

		Jub I Iui	. (. ,													
Farm	er	Wom	en	Rura	al	Extens	sion	OFT	N	umbe	r of	Par	Pro	Pro	Pro	Pro	Te
Traini	ng	Farm	er	Youth	าร	Persor	nel	(No farmers t		ticip	duc	duc	duc	duc	sti		
		Traini	ng					of	involved		ant	tion	tion	tion	tion	ng	
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15.10 SCSP: NIL

Farm	er	Wom	en	Rura	al	Extens	sion	OFT	N	umbe	r of	Par	Pro	Pro	Pro	Pro	Te
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		Traini	ng					of	İI	involved		ant	tion	tion	tion	tion	ng
No.	Ν	No.	Ν	No.	Ν	No.	Ν	Tech	0	Fr	M	s in	of	of	of	of	of
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15.11 NARI: NIL

	Achie	evement
Activity	Number of activity	No. of farmers/ beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)		
OFTs - Bio-fortified Crops (activity in no. of Unit)		
OFTs – Value addition(activity in no. of Unit/Enterprise)		
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
FLDs - Nutritional Garden (activity in no. of Unit)		
FLDs - Bio-fortified Crops (activity in no. of Unit)		
FLDs – Value addition(activity in no. of Unit/Enterprise)		
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
Trainings		
Extension Activities		

15.12 KVK Portal

No. of	No. of	Filled Report on Package of Practices (Y/N)			Filled Profile Report (Y/N)								
Eve nts add ed by KVK s	Facili ties adde d by KVKs	Cr op	Livest ock	Fishe ries	Horticu Iture	Emplo yees	Po sts	Fina nce	Soil Hea Ith Car ds	Applia nces	Cro ps	Resou rces	Fi sh
2340	12	Υ	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA: NIL

Number of	No. of Activities	3	No. of farmers bene	s benefited	
Adopted Villages	Demo	Training	Demo	Training	

$15.14\ DFI: KVK$ has intervened with 110 families during the year 2020 among 133 families surveyed under DFI

SI	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs./year)	Crops/ enterprises	KVK Interventions	Addition al Net Income generate d due to KVK interventi ons (Rs/year)	Total income of farmer (Rs/ year)
1	Gadag		Chikkasavanur, Shingatarayana keri and Gadag	110	71095	Crops: Maize, Rabi Sorghum, Bt.Cotton, Groundnut, Greengram, White Onion, Chrysanthemu m, Vegetables (Okra, Ridgegourd, Dolichos bean, Beans and Coriender) Enterprises: Dairy Nutri Garden	Maize+ Redgram intercropping system with ICM practices Introduction of SPV-2217 variety in Rabi Sorghum Bt.Cotton+ Greengram intercropping system with ICM practices Introduction of DH-256 variety of Grounndut along with ICM practices Introduction of DGGV-2 variety with ICM practices Introduction of Arka Shweta and Arka Shubra white Onion varieties ICM in Chrysanthem um Demonstratio n of vegetable cafeteria (Introduction of improved varieties of Okra, Ridgegourd, Dolichos bean, Beans and Coriender Nutrient	149386	220481

SI	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs./year)	Crops/ enterprises	KVK Interventions	Addition al Net Income generate d due to KVK interventi ons (Rs/year)	Total income of farmer (Rs/ year)
							management in milch animals • Demonstratio n of nutri garden		

PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK

16.1 Farmers feedback on performance of crop varieties/hybrids

SI. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
1	Groundnut ● GPBD-4	Early maturityTwo seeded podsResistant to rust and late leaf spot
2	• DGGV-2	 High yielding Non shattering Taller canopy Suitable for mechanical harvesting
3	 Vegetable crop cafeteria Ridgegourd - Arka Prasan variety Dolichos bean – Arka Amogh 	 An early variety Gives more yield Low incidence of powdery mildew compared to local variety Fruits are tender with good taste and cooking quality More yield, good marketability and cosumer
	Radish – Arka Nishant Spinach – Arka Anupama	 acceptability More yield, mild in pungency and attractive roots and foliage Preferred by local market More yield, thick and big leaves make large
4	Onion • Bheema Super	 bunch & attractive green leaf colour and Good Shelf life Bheema Super have good bulb weight with 26.80 % increase in the yield. Bulbs are attractive with light pink colour fetches Rs.200/- more per quantal compared to local variety Ballary Red.

16.2 Farmers feedback on performance of agronomic practices

SI.	Agronomic practices	Farmer's feedback
No.		
1	Seed treatment of Trichoderma in Groundnut	Helps to reduce Root rot disease
2	Seed treatment with Biofertilizers like Rhizobium and PSB	Helps to reduce use of nitrogenous and phosphatic fertilizers
3	Use of pulse magic in Greengram	Foliar spray of Pulse magic in Greengram at flowering stage helped in healthy growth of plant without any deficiency symptoms besides increasing number of pods per plant. This practice resulted in higher grain yield.
4	Seed treatment with Rhizobium and PSB	Higher seedling vigor
5	Foliar spray of Pulse magic	Increased pod setting and higher yield
6	Adoption of border crop and trap crops in ByadagiChilli	Maize as border crop and Marigold as trap crop resulted in less incidence of sucking pest and fruit borer respectively
7	Use of Arka Vegetable Special at 40, 60 and 80 days after sowing in vegetables, Red Onion and Red Chilli	Vegetables Application of Arka Vegetable Special resulted in better crop growth without much micronutrient deficiency. Ridgegourd- Elongated fruits with no malformation Dolichos bean- Complete filling of grains Spinach - Less occurence of Iron deficiency resulted in healthy and dark green leaves Radish – Less forking, bright white colour roots Onion Application of Arka Vegetable Special helped to get large and dark pink coloured bulbs Chilli Application of Arka Vegetable Special (Micornutrient mixture) resulted in better flower and fruit set and dark red coloured fruits
8	Crop diversification Introduction of Ajwain and Ashwagandha crops	 These crops withstand vagaries of mansoon and grows well under residual soil moisture conditions compared to field crops. Ashwagandha crop has assured buyback system and green seeds of improved Ajwain variety fetches better market price. Therefore, crop diversification through introduction of these climate resilient crops are more profitable and sustainable than traditional crops during less rainfall years

16.3 Farmers feedback onperformance of pest and disease management in crops

SI.	Pest and disease management in	Farmer's feedback
No.	crops	
1	Groundnut	Collar rot and Leaf sport diseases were identified in
		groundnut crop. Integrated management practices like
		seed treatment with fungicides, crop rotation practices,
		summer ploughing and green manuring along with
		chemical management practices helped to reduce collar
		rot and leaf spot incidence in groundnut crop.
2	Greengram	Major pests like thrips, Aphids and Pod borer and
		incidence of disease like powdery mildew were noticed
		during cultivation. Adoption of Integrated crop
		management practices in demonstrated plots helped in
		reduction of pest and disease occurrence.
3	Seed treatment with Trichoderma	Low incidence of soil borne fungal diseases
4	Seed treatment with Trichoderma	Helped to reduce seedling rot and incidence of sucking
	viride and Imidachloprid in	pests at early vegetative growth stage
	ByadagiChilli	
5	Seed treatment with Trichoderma	Helped to reduce seedling rot disease in main field
	viride in onion	
6	Pest and disease management in	Timely management of Anthracnose, Murda complex
	Byadagichilli crop	disease lead to get 20% additional yield compared to local
		practices

16.4 Farmers feedback on performance of farm machinery technologies

SI. No.	Farm machinery technologies	Farmer's feedback				
1	i) Tractor operated Boom sprayer	Area coverage and efficacy of spray is good				
	ii) Drone sprayer	Field capacity is better compared to other technologies and it results in saving of time and labour				
	iii) Battery operated Onion detopper	Reduces drudgery of operation involved in manual detopping of Onions and also saves time of operation.				

16.5 Farmers feedback on performance of livestock and fisheries technologies

SI. No.	Livestock/fisheries technologies	Farmer's feedback
1	CB Cows	Feeding of green fodder enhances the milk yield
		and improves the health of the CB cows

PART XVII - FINANCIAL PERFORMANCE

17A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host	-	-	-	-	-	-	-
Institute							
With KVK	SBI	Gadag	0838	KHP KVK Hulkoti	10824829153	582002002	SBIN0000838

17B. Utilization of KVK funds during the year 2022-2023 (Up to 31stMarch 2023)

S.No.	Particulars	Sanctioned	Released	Expenditure
	rring Contingencies			
1	Pay & Allowances	20573000	20573000	20572955
2	Traveling allowances	195000	195000	195000
3	Contingencies			
Α	Stationery, telephone, postage and other			
	expenditure on office running, publication			
	of Newsletter and library maintenance			
	(Purchase of News Paper & Magazines)	395000	395000	395000
В	POL, repair of vehicles, tractor and			
	equipments	475000	475000	475000
C	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)	142000	142000	142000
D	Training material (posters, charts,			
	demonstration material including chemicals			
	etc. required for conducting the training)	30000	30000	30000
E	Frontline demonstration except oilseeds			
	and pulses (minimum of 30 demonstration			
	in a year)	455000	455000	455000
F	On Farm Testing (on need based, location	.0000	.00000	10000
-	specific and newly generated information in			
	the major production systems of the area)	145000	145000	145000
G	Integrated Farming System	0	0	0
Н	Training of Extension Functionaries	25000	25000	25000
I	Extension activities	125000	125000	125000
J	Farmers' Field School	30000	30000	30000
K	EDP / Innovative activities	30000	30000	30000
L	Maintenance of buildings	150000	150000	150000
M	Establishment of Soil, Plant & Water Testing	5 0000	50000	50000
	Laboratory and issue of Soil Health Cards	50000	50000	50000
N	Nutri Garden	25000	25000	25000
0	Library Maintenance	25000	25000	25000
	TOTAL (A)	22870000	22870000	22869955
B. Non-	Recurring Contingencies	-	-	· · · · · · · · · · · · · · · · · · ·
1	Works	0	0	0
2	Equipments including Furniture (IT)	300000	300000	300000
3	Vehicle (Four wheeler)	900000	900000	900000
4	SCSP Programme	270000	270000	270000
TOTAL		1470000	1470000	1470000
	DLVING FUND	0	0	0
GRAND	TOTAL (A+B+C)	24340000	24340000	24339955

17C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 31st March of each year
April 2020 to	5.05	14.35	14.89	4.51
March 2021				
April 2021 to	4.51	21.71	19.83	6.39
March 2022				
April 2022 to	6.39	30.64	30.02	7.01
March 2023				

18. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
	Senior Scientist and Head	Pre-Action Plan meeting	UAS, Dharwad	11-12, April 2022
Dr. L.G.Hiregoudar		Annual Review 2021-22 Cum Action Plan 2022-23 workshop	UAS, Dharwad	21-23, April 2022
Dr. Sudha V. Mankani	SMS (Home Science)	KVK National conference at Solan	Dr. V.S.Parmar University of Horticulture and forestry, Solan, Himachal Pradesh	1-2, June 2022
		Safflower oil processing - Value addtion& marketing	UAS, Dharwad	1 December 2022
		National level workshop on Natural Farming	University of Agricultural Sciences, Gwalior, Madhya Pradesh	3 December 2022
Mr. N.H.Bhandi	SMS (Soil Science)	Training on Natural Farming	Gurukul, Kurukshetra, Hariyana State	5-6December 2022
		International conference on 'Reimaging Rainfed Agriculture' - Challenges & opportunities	CRIDA, Hyderabad	22-24, December 2022
		South Asia Drought Monitoring System (SADMS)	CRIDA, Hyderabad	9-10 March 2023
Mrs. Hemavati R.H.	SMS (Horticulture)	Good agricultural practices in Onion and Garlic production technology	ICAR-DOGR, Pune	3-7, May 2022
		Herbs in Nutraceuticals	ICAR-NIVEDI, Bengaluru	28May 2022
		Training to FPO members by Center of Excellence, Bengaluru	Confederation of horticulture associations of India	28 July 2022
Dr. Vinayak Niranjan	SMS (Ag. Engineering)	Agricultural mechanisation in India - Challenges and perspectivies	Online	04 April 2022
	(Ag. Engineening)	Drone applications in Indian Agriculture	Online	08 April 2022

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
		Online webinar on promotion of Kisan drones, issues, challenges & way forward	Online	02 May 2022
		Natural farming for suitable agriculture	Extn. Education Institute, PJTSAU, Hyderabad	18-24, April 2022
		Workshop on creating multi- stake holder value chain for neglected and under utilised crops	Sahaja Samrudha, Dharwad & Swiss Aid	09 May 2022
		Workshop on Kharif crops of 2022-23 viz. Greengram and Soyabean	N.R.Deshpande, FPO, Mulgund	23 May 2022
		Promotion of agroforestry as climate risk mitigation	CSB, Bengaluru	25-26, May 2022
		International conference on 'Reimaging Rainfed Agriculture' - Challenges & opportunities	CRIDA, Hyderabad	22-24, December 2022

19) Please include any other important and relevant information which has not been reflected above (write in detail). Like details regarding FPO formation, Achievements during COVID-19 lockdown period.

(i) EDP ON VALUE ADDITION AND MARKETING OF ETHNIC FOOD PRODUCTS

Ethnic foods and traditional foods are known for its taste and quality. Because of the consumer demand, many entrepreneurs and SHG groups are preparing the traditional foods. But they lack in marketing ventures, food license and attractive packing. To increae their marketability of ethnic products with food licensing the EDP on marketing of ethnic food products mainly Gulladaki Ladu was initiated.

Objectives:

- To imbibe EDP skills in marketing of Ethnic products
- To get an additional employment through preparation of Ethnic products
- · To enhance the marketability and income of farm families

Activities conducted:

- Implemented EDP by taking two farmersfrom Hulkotivillage of Gadag block
- 2 trainings on packing, labeling and marketing of Chilliproducts
- Prepared labels and facilitated packing materials for marketing of Ethnic food products
- · Facilitated the entrepreneurs in obtaining the FSSAI licence
- · Facilitated in providing dough kneading machine and other small machinaries
- · Facilitated to participate in Exhibition & fairs for marketing of Ethnic products
- Initiated sales of Ethnic products through ASF's Organic Sales Unit, marts and petty shops

Name of the SHG member	Brand name	Village	Taluk	Date of initiation
Mrs. Shilpa Basavaraj Angadi	Shivaprasad GruhaUtpannagalu	Hulkoti	Gadag	March 2023
Mr. Muralidhar R. Odugoudar	Shri Sai Gayatri GruhaUtpannagalu	Hulkoti	Gadag	March 2023

Economics of Ethnic Food Products Enterprise

Particulars	Income				Expenditure			
	Name of the product	Year	Quantity produced	Rate (Rs.)	Total (Rs.)	Rawmaterials and other expenses (Rs.)	Total cost of production (Rs.)	Net Income (Rs.)
Mrs. Shilpa Basavaraj	Gulladaki Ladu	2023	90 Kg	600 / Kg	54000	350/Kg	31500	22500
	Groundnut Holige		1500 Nos.	10 / Piece	15000	7/Piece	10500	4500
Angadi	Sesame Holige	1	900 Nos.	14 / Piece	12600	10 / Piece	9000	3600
				•			Total	30600
Mr. MuralidharR. Odugoudar	Gulladaki Ladu	2023	90 Kg	600 / Kg	54000	350 / Kg	31500	22500
	Wheat Sandige		20 Kg	300 / Kg	6000	50 / Kg	1000	5000
	Groundnut Ladu		20 Kg	350 / Kg	7000	250 / Kg	5000	2000
							Total	29500

(ii) FFS: FODDER CULTIVATION

Fodder Crops:

Forage crops (Super Napier, Multicut Sorghum, Grazing guinea grass, Rhodes grass, Signal grass & fodder oats)

Legume crops (Lucerne seeds, Stylosanthes heamata, Stylo Scabra & Cow pea)

Fodder trees (Subabul & Susbenia grandiflora-Agathi)

No. of sessions: 8 Village : Shagoti Block : Gadag

No. of farmers: 25 Farming situation: Irrigated Season : 2022-23

SI. No.	Sessions Conducted	No. of Participants
1	AES with respect to fodder cultivation	25
2	Land preparation techniques for fodder cultivation	24
3	Characteristics of fodder seeds / root slips, sowing / planting technique	25
4	Nutrition management in fodder crops	23
5	Weed management and scheduling of irrigation	22
6	Fodder harvesting stages, chopping and feeding	24
7	Silage making and fodder enrichment	25
8	Field day	25





FFS sessions