ICAR-KRISHI VIGYAN KENDRA, GADAG

ANNUAL REPORT –2025

(FOR THE PERIOD FROM 01 JANUARY, 2025 TO 31 DECEMBER 2025)

ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti
Gadag district, Karnataka State
Pincode: 582205
Website: https://khpkvk.in/ E-mail: kvkhulkoti@gmail.com
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) 289325	-	kvkhulkoti@gmail.com	www.khpkvk.in

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Agricultural Science Foundation, Hulkoti Gadag dist.	(08372) 289325	-	hulkotiasf@gmail.com	www.asf.ind.in

1.3. Name of the Senior Scientist and Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sudha V. Mankani	-	9480552339	sudhavmankani@gmail.com

1.4. Year of sanction: 1985

1.5. Staff position as on 31 December 2025

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Level	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ ST/ OBC/ Others)
1	Head/ Senior Scientist	Dr. Sudha V. Mankani	Senior Scientist and Head		Home Science	M.H.Sc, PhD	L-13A	131400	26.06.1995	P	OBC
2	Scientist/ SMS	Mr. N.H. Bhandi	Subject Matter Specialist	M	Soil Science	M.Sc (Agri)	L-11	109100	01.06.2005	P	OBC
3	Scientist/ SMS	Mrs. Hemavati R.H.	Subject Matter Specialist	F	Horticulture	M.Sc (Horti)	L-10	65000	14.02.2020	P	OBC
4	Scientist/ SMS	Dr. Vinayak Niranjan	Subject Matter Specialist	M	Ag. Engineering	M.Tech(Ag .Eng), PhD	L-10	63100	11.10.2021	P	OBC
5	Scientist/ SMS	Dr. Chethan Babu R.T	Subject Matter Specialist		Agronomy	M.Sc (Agronomy) PhD	L-10	56100	02.07.2025	P	OBC
6	Scientist/ SMS	Dr. Manjuprakash Patil	Subject Matter Specialist	M	Ag. Extension	M.Sc (Ag. Extension) PhD	L-10	56100	13.10.2025	P	OBC
7	Scientist/ SMS	VACANT	Subject Matter Specialist		Animal Science						
8	Programme Assistant (LabTech.)	Dr. Praveen Karikatti	Programme Assistant	M	Labs	M.Sc (Soil Science) PhD	L-5	29200	01.03.2025	P	OBC

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Level	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ ST/ OBC/ Others)
9	Programme Assistant (Computer)	Mrs. Lalita S.Asuti	Programme Assistant (Computer)	F	-	M.Sc (IT)	L-8	74300	01.06.2005	P	OBC
10	Programme Assistant/ Farm Manager	Mr. Suresh L. Halemani	Farm Manager	M	-	B.Sc (Agri.)	L-7	58600	01.02.2011	P	OBC
11	Assistant	Mr. M.B. Jakkanagoudra	Assistant	M	-	M.Com	L-7	66000	25.06.2007	P	OBC
12	Jr. Stenographer	Mr. T.K. Sai Swaroop Rao	Jr. Stenographer	M	-	SSC & Certificate in Stenography	L-4	33300	15.12.2016	P	OBC
13	Driver - 2	Mr. G.D. Madivalar	Driver-Cum-Mechanic	M	-	7th Std.	L-4	44800	26.06.1995	P	OBC
14	Driver - 1	Mr. Mahesh Navalgund	Driver-Cum-Mechanic	M	-	PUC	L-3	21700	01.03.2025	P	OBC
15	SS-2	Mrs. Savita I. Hampannavar	Field Assistant	F	-	PUC	L-1	20900	14.02.2020	P	OBC
16	SS-1	Mr. Parappa P. Jantli	Field Assistant	M	-	B.E (Civil)	L-1	18000	01.03.2025	P	OBC

1.6. Total land with KVK (in ha): 20.0 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.2
2.	Under Demonstration Units	0.2
3.	Under Crops	6.4
4.	Orchard/Agro-forestry	13.2
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			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	-	-	-
2.	Farmers Hostel	ICAR	1997	550	17.26	-	-	-
3.	Staff Quarters	ICAR & Host Institution	31-03-2006	400	48.2 (25.82 ICAR + 22.38 Host Inst.)	-	-	-
	1							
	2							
	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	-	-	-
5	Fencing	ICAR	31-03-2011		8.00			
6	Rain Water harvesting system	ICAR	31-03-2007	-	10.00	-	-	-
7	Threshing floor	ICAR & Host Inst.	31-03-2011	278	4.00 (2.00 ICAR + 2.00 Host Inst.)	-	-	-
8	Farm godown	ICAR	31-03-2011	70	3.00	-	-	-
9	Vermi Compost	Host Inst.	31-03-2002	100	3.50	-	-	-
10	Vehicle & implement shed	ICAR & Host Inst.	31-03-2011	80	5.00 (3.00 ICAR + 2.00 Host Inst.)	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs. in lakhs)	Total kms. Run	Present status
Jeep (Mahindra Bolero)	2023	9.00	30794	Good
Tractor	2003	5.00	15073 Hrs	Needs replacement
Motor cycle - I	2004	0.40	80932	Needs replacement
Motor cycle - II	2009	0.50	64607	Needs replacement

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 Address System	2013	1	0.36	Good
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
Rotary weeder	2009	1	0.84	Good

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
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 organized

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
09.01.2025	26	Conduct one trial of each FLD in KVK's Instructional Farm	Conducted in Kharif and Rabi, 2025-26	-
		Demonstration Board must contain the date of initiation of Natural Farming in KVK Farm.	Included details in the Demonstration Board	-
		Continue conducting awareness & training programmes on Natural Farming and Organic farming.	Conducted 12 number of trainings and 16 awareness programmes on Natural farming and organic farming	-
		The feedback on the demonstrated technologies needs to be given to the Research Institutes and Universities.	The feedback were sent to UAS, Dharwad and UAS, Raichur and ICAR-DCR, Puttur on various crop issues	-
		Promote dryland horticulture by including in-situ grafting plants like Mango and Cashew.	Conducted 3 training programmes for 89 farmers. Provided 500 seedlings to farmers under SCSP and TSP projects	-
		Take up programmes for popularization of micro-greens.	During the year 2025-26, orgnaised awareness programmes to Anganwadi teachers, CRPs and farm women on microgreens	-
		Conduct programmes for promotion of roof gardening in semi urban and urban areas	Conducted 3 training programmes in collaboration with various departments and Lions Club	-
		Conduct few more awareness programmes on crop rotation and seed treatment	During Kharif campaign and Rabi campaign the awreness was created	-
		Conduct more programmes on promotion of Millets and awareness on processing of Millets.	Conducted during Kharif campaign and KSDA collaborations programmes	-
		Take up demonstrations in Bengalgram using BGD-111-01 variety also.	Included in OFT of the year 2025-26	-
		Conduct more number of programmes w.r.t. promotion of Maize+Redgram intercropping system.	Taken 20 FLDs and imparted trainings to 135 farmers during 2025-26	-
		Include demonstrations on silage making, enrichment of dry fodder etc., in all training programmes	Included these in 8 training programmes conducted for 278 farmers organized by SBI-ASF-RSETI, Hulkoti and CEAH, Bangalore and KVK programmes	-

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
		Conduct few more programmes on Promotion of ODOP crop Chilli seed production as well as value addition.	Conducted 2 demonstrations for seed production and EDP in Chilli crop	-
		Demonstrate new variety of onion NHRDF-883.	This variety is taken under OFT	-
		Further promotion of green fodder production in all adopted villages may be taken up.	Taken in Nagavi (Gadag) and Sugnalli (Shirahatti) villages under FLD programme	-
		Take demonstration of BGD-111-1 variety of Bengalgram crop in FLDs.	During the year 2025-26, BGD-111-1 was included in OFT	-
		Conduct demonstration in Sunflower crop with KBSH-90 variety released by UAS, Bangalore and RSFH-700 released by UAS, Raichur.	Taken under CFLDs	-
		Conduct farm trial with liquid form of trichoderma (@ 10ml/kg of seeds) in Bengalgram crop to control wilt problem in KVK Farm	This trial is taken up in KVK farm	-

*** This year SAC is scheduled on 2nd Februrary 2026**

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	
1	Agricultural crops + Dairy enterprise
2	Agricultural crops + Horticultural crops
3	Agriculture + Horticulture + Dairy enterprise
Irrigated situation	
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 36-40^0 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 rainfall 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

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.	25,210
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)

Crops	Area (ha)		Production (t)		Productivity (kg/ha)	
	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
Cereals						
Maize	**38468**	**-**	**135651**	**-**	**3712**	**-**
Rabi Sorghum	**-**	**76846**	**-**	**54471**	**-**	**746**
Wheat	**18042**	**-**	**9701**	**-**	**566**	**-**
Paddy	**2437**	**-**	**7638**	**-**	**3299**	**-**
Millets						
Pulses						
Greengram	**-**	**77077**	**-**	**6224**	**-**	**85**
Bengalgram	**-**	**132538**	**-**	**58549**	**-**	**465**
Tur	**-**	**3373**	**-**	**2150**	**-**	**671**
Oilseeds						
Groundnut	**-**	**36275**	**-**	**32341**	**-**	**938**
Sunflower	**-**	**31373**	**-**	**18151**	**-**	**609**
Spices and Condiments						
Chilli	**-**	**15102**	**-**	**72489**	**-**	**480**
Plantation and Horticultural Crops						
Vegetables						
Onion	**-**	**29671**	**-**	**343420**	**-**	**11500**
Fruits						
Mango	**-**	**2915**	**-**	**9475**	**-**	**1300**

Source: Department of Agriculture, Gadag – 2022-23

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January, 2025	0.0	29.4	16.5	52
February, 2025	0.2	32.0	18.2	46
March, 2025	8.7	34.8	20.5	43
April, 2025	55.3	36.2	22.4	51
May, 2025	101.7	35.1	22.7	60
June, 2025	78.4	29.0	21.9	78
July, 2025	82.3	27.0	21.3	83
August, 2025	171.8	26.9	16.2	85
September, 2025	95.6	27.8	20.7	81
October,2025	67.3	30.0	21.5	70
November, 2025	6.1	29.0	19.0	63
December, 2025	0.3	29.0	9.40	56

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

Category	Population	Milk Production (Liters)	Meat Production (Tonnes)	Productivitiy (Liters/Animal)
Cattle	76846	12,00,000	2000	15.7
Buffalo	77077	15,00,000	3000	19.5
Sheep	132538	-	1200	-
Goat	33173	-	800	-
Pigs	3917	-	500	-
Poultry	156275	72 lakh (Eggs)	2500	100 per year (Eggs)

2.7 District profile has been **Updated** for 2025 : Yes (Latest available data is uploaded)

2.8 Details of Operational area / Villages

Sl. 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	Nagavi (Gadag block)	1 Year	Maize	• Practicing mono cropping • Imbalanced nutrition • Application of excess Nitrogen • Incidence of Army worm • Incidence of Turcicum leaf blight	• FLD on Maize + Redgram intercropping system • Training on ICM practices in Maize • Supply of literature • Field day
				Rabi Sorghum	• Low productivity due to use of existing variety • Incidence of Charcoal stem rot diseases • Incidence of shoot fly and stem borer • Problem of lodging in existing variety	• Training on ICM practices in Rabi Sorghum • Supply of literature
				Greengram	• Low yield due to use of local variety • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of Powdery mildew and Pod borer • Seed shattering problem during harvesting in existing variety	• OFT on Greengram • FLD on ICM practices in Greengram • Training on ICM in Greengram • Supply of literature • Field day
				Bengalgram	• Low yield due to cultivation of existing varieties • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of pod borer • Incidence of Wilt and Rust	• OFT on Bengalgram • FLD on ICM in Bengalgram • Training on ICM practices in Bengalgram • Supply of literature • Field day

Sl. 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
					• Non profitability due to no nipping Drudgery of Operation involved in Manual Nipping of Chickpea	• FLD on solar nipping machine • Trainings on use of machineries in chickpea cultivation • Field day
				Bt. Cotton	• Incidence of Pink bollworm • Incidence of Leaf reddening • Incidence of sucking pests	• Training on IPM practices in Bt. Cotton
				Summer Groundnut	• Low yield due to use of existing varieties • Imbalanced nutrition • Incidence of collar rot and root grub	• FLD on INM in Summer Groundnut • Training on ICM practices in summer groundnut • Field Day • Supply of literature
					• Drudgery involved in manual harvesting • Low income due to high labour cost	• FLD on demonstration of tractor operated Groundnut digger cum elevator • Trainings on use of machineries in groundnut cultivation
				Safflower	• Low productivity due to cultivation of local variety • Incidence of sucking pests • Incidence of Capsule borer • Incidence of Alternaria leaf spot	• OFT in Safflower varieties • FLD on ICM in Safflower • Training on ICM practices in Safflower • Supply of literature • Field Day
				Vegetable crops	• Low income due to cultivation of local varieties • Application of imbalanced fertilizers	• FLD on vegetable crops • Trainings on ICM in vegetable crops • Supply of literature • Field day
				Okra	• Low productivity due to cultivation of local variety • Incidence of sucking pests • Incidence of yellow vein mosaic virus	• FLD on Okra • Training on ICM practices • Supply of literature

Sl. 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)	• Training on ICM in Chilli • Training on post harvest technologies • Supply of relevant literature • Farm advisory services • Rendering Kisan Mobile Advisory Services to farmers • Field day
				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	• OFT on Onion • 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
				Nutrition and health	• Less consumption of fruits and vegetables • Lack of awareness on health &nutritionandbalanced diet	• FLD on Nutri Garden • Training on balanced diet and nutrition • Training on importance of millets in diet • Field day
				Millets	• Low productivity due to cultivation of local variety • Lack of awareness on millet nutrition and value addition	• Training on ICM in millets • Training onpreparation of millet products • Supply of literature
				Grain storage	• Incidence of stored grain pest	• Training on management of stored grain pests • Supply of literature

Sl. 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	• FLD on green fodder production • Traininig on scientific management of sheep and goats • Supply of literature • Mobile advisory services • Field day
				Farm Machinery		
				i) Tractor operated mulcher	High drudgery of operation and labour cost involved in manual weeding	• FLD on demonstration of engine operated weeder in different row crops for drudgery reduction • Trainings on mechanized weed management • Extension activities
				ii) Engine operated weeder		
2	Mundaragi	Churchihal	1 Year	Rabi Sorghum	• Incidence of Charcoal stem rot diseases • Incidence of shoot fly and stem borer • Problem of lodging	• Training on ICM practices in Rabi Sorghum • Supply of literature
				Greengram	• Low yield due to use of local variety • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of Powdery mildew and Pod borer • Seed shattering problem during harvesting in local variety China Moong • High drudgery of operation involved in manual weeding	• OFT on assessment of high yielding varieties of Greengram • FLD on ICM practices in Greengram • Training on ICM in Greengram • Supply of literature

Sl. 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 • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of pod borer • Incidence of Wilt and Rust • Moisture stress	• FLD on compartmental bund former • Training on ICM practices in Bengalgram • Supply of literature
					• Low yield due to moisture stress • Non profitability due to no nipping • Drudgery of Operation involved in Manual Nipping of Chickpea	• Trainings on use of machineries in chickpea cultivation
				Safflower	• Low productivity due to cultivation of local variety • Incidence of sucking pests • Incidence of Capsule borer • Incidence of Alternaria leaf spot	• Training on ICM practices in Safflower • 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	• 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 • Imbalanced nutrition without soil testing • Low keeping quality bulbs in existing variety • High incidence of thrips & purple	• Trainings on ICM in onion crop • Supply of relevant literature

Sl. 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
					blotch • High incidence of weeds	
				Nutrition and health	• Less consumption of fruits and vegetables • Lack of awareness on balanced diet and nutrition	• Training on balanced diet and nutrition
				Grain storage	• Incidence of stored grain pest	• Training on management of stored grain pests • Supply of literature
				Millets	• Lack of awareness on millet nutrition and value addition	• Training on importance of millets & its products • Supply of literature
				Farm machinery	High drudgery of operation and labour cost involved in manual weeding	• FLD on demonstration of engine operated weeder in different row crops for drudgery reduction • Trainings on mechanized weed management • Extension activities
3	Laxmeshwar	Adarakatti		Maize	• Imbalanced nutrition • Application of excess Nitrogen • Incidence of Army worm • Incidence of Turcicum leaf blight	• FLD on Integrated Crop Management in Maize • FLD on Maize+Redgram intercropping system • Training on ICM practices in Maize • Supply of literature, • Supply of extension literature • Field day

Sl. 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	• Low productivity due to use of local variety • Incidence of Charcoal stem rot diseases • Incidence of shoot fly and stem borer • Problem of lodging in existing variety	• FLD on ICM in Rabi Sorghum • Training on ICM practices in Rabi Sorghum • Supply of literature • Field day
				Foxtail Millet	• Low yield of local variety • Lack of awareness of high yielding variety	• FLD on ICM in foxtail millet • Training on ICM in foxtail millet • Demonstration of value addition of foxtail millet
				Greengram	• Low yield due to use of local variety • Imbalanced nutrition • Low yield due to incidence of Powdery mildew and Pod borer • Seed shattering problem during harvesting in local variety China Moong	• FLD on ICM practices in Greengram • Training on ICM in Greengram • Supply of literature • Field day
				Blackgram	• Low yield due to use of local varieties • Incidence of Powdery mildew • Incidence of pod borer	• Training on ICM practices in Blackgram
				Bengalgram	• Low yield due to cultivation of local varieties • Imbalanced nutrition • Low yield due to incidence of pod borer • Incidence of Wilt and Rust	• FLD on ICM in Bengalgram • FLD on solar nipping machine • Trainings on ICM practices in Bengalgram • Supply of literature • Field day

Sl. 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	• Trainings on ICM practices in Spreading groundnut • Supply of relevant literature
				Safflower	• Low productivity of local variety • Imbalanced nutrition	• FLD on ICM in Safflower • OFT on high yielding Safflower • Training on ICM in Safflower • Supply of literature • Field day
				Onion	• Low income due to cultivation of local varieties • Imbalanced nutrition without soil testing • Low keeping quality bulbs in existing variety • High incidence of thrips & purple blotch • High incidence of weeds	• OFT on assessment of different varieties • FLD on introduction of Bhima Super variety along with ICM practices • Trainings on ICM in onion crop • Supply of relevant literature
				Chilli	• Low productivity in existing local varities • Imbalanced nutrition • Incidence of Chilli murda complex	• EDP on Chilli • Training on Chilli • Supply of relevant literature
				Soybean	• Low productivity due to cultivation of local variety	• FLD on Introduction of DSB-34 variety of Soybean • Trainings • Supply of literature
				Bt. Cotton	• Incidence of pink bollworm • Problem of leaf reddening • Incidence of sucking pests	• Training on ICM practices in cotton

Sl. 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 (CB Cows)	• Low productivity of milk due to non-availability of green fodder throughout the year.	• FLD on multiple varieties of perennial fodder production and feeding to CB cows for enhanced milk yield • 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 • Lack of awareness on balanced diet and nutrition	• FLD on Nutri Garden • Training on balanced diet and nutrition • Training on importance of millets in diet • Field day
				Grain storage	• Incidence of stored grain pest	• FLD on Supergrain bags and insect probe trap • Training on management of stored grain pests • Supply of literature
4	Naragund	Kanakikoppa	1 Year	Maize	• Imbalanced nutrition • Application of excess Nitrogen • Incidence of Army worm • Incidence of Turcicum leaf blight	• Trainings on ICM practices in maize • Supply of literature
				Rabi Sorghum	• Low productivity due to use of local variety • Incidence of Charcoal stem rot diseases • Incidence of shoot fly and stem borer	• OFT on Assessment of Rabi Sorghum varieties for higher productivity • Training on ICM practices in Rabi Sorghum • Supply of literature

Sl. 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
					• Problem of lodging in existing variety	• Field day
				Greengram	• Low yield in existing varieties • Imbalanced nutrition • Low yield due to incidence of Powdery mildew and Pod borer • Seed shattering problem during harvesting in local variety China Moong	• Training on ICM in Greengram • Supply of literature
				Wheat	• Low productivity due to use of local varieties • Incidence of stem borer • Incidence of rust and leaf spot	• FLD on ICM in Wheat • Training on ICM practices in wheat • Supply of literature • Field day
				Bengalgram	• Low yield in existing varieties • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of pod borer • Incidence of Wilt and Rust • Non profitability in existing farming system due to no nipping	• OFT on assessment of high yielding varieties in Bengalgram crop • FLD on ICM in Bengalgram • FLD on solar nipping machine in Chickpea • Training on ICM in Bengalgram • Field day • Supply of literature
				Safflower	• Low productivity due to cultivation of local variety • Incidence of sucking pests • Incidence of Capsule borer • Incidence of Alternaria leaf spot	• Training on ICM practices in Safflower • Supply of literature

Sl. 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
				Onion	• Low productivity due to imbalanced nutrition • Low productivity due to cultivation of low yielding variety Double Red • Incidence of thrips reduces the yields	• Trainings on ICM in onion crop • Supply of relevant literature
				Nutrition and health	• Less consumption of millets, fruits and vegetables in daily diet	• Training on health and nutrition, importance of millets in diet
5	Shirahatti	Suganalli	2 Year	Maize	• Low income due to cultivation of Maize as a sole crop • Imbalanced nutrition • Application of excess Nitrogen • Incidence of Army worm • Incidence of Turcicum leaf blight	• Trainings on ICM in Maize+Redgram intercropping system • Supply of literature
				Rabi Sorghum	• Low productivity due to use of local variety M 35-1 • Shoot fly and smut disease • Incidence of fall army worm and charcoal stem rot • Lodging problem	• Training on ICM practices in Rabi Sorghum • Supply of literature
				Greengram	• Low productivity due to use of China Moong variety • Incidence of spittle bug and pod borer • Incidence of powdery mildew, leaf spot & yellow vein mosaic • Discoloration of seeds during mechanical harvesting • High labour and drudgery involved in manual weeding	• Training on ICM in Greengram • Supply of literature
				Blackgram	• Low yield due to use of local varieties • Incidence of Powdery mildew	• Training on ICM practices in Blackgram

Sl. 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
					• Incidence of pod borer	• Supply of literature
				Bengalgram	• Low yield due to cultivation of local varieties • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of pod borer • Incidence of Wilt and Rust	• Training on ICM practices in Bengalgram • Trainings on use of machineries in Bengalgram cultivation • Field day • Supply of literature
				Vegetable crops	• Low income due to cultivation of local varieties and low yielding hybrids • Application of imbalanced fertilizers	• Trainings on ICM in vegetable crops • Supply of literature
				Grain storage	• Incidence of stored grain pest	• Training • Supply of literatures • Group discussion • Supply of Super grain bags
				Nutrition and health	• Less consumption of fruits and vegetables • Lack of awareness on balanced diet and nutrition	• Training on balanced diet and nutrition • Training on importance of millets in diet • Field day
				Foxtail Millet	• Lack of awareness on millet nutrition and value addition	• Training on preparation of millet products • Supply of literature
				Pearl Millet	• Low productivity in local variety • Lack of awareness on bio-fortified Pearl Millet VPMV-9 variety • Lack of awareness on value added products of Pearl Millet in daily diet	• Training on cultivation of millets
				Milch cattle (CB Cows)	• 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

Sl. 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
				Calf	• Low rate of body weight gain and delay in maturity due to malnutrition	• Training on scientific dairy management • Supply of literature • Field day
6	Ron	Madalageri	1 Year	Maize	• Imbalanced nutrition • Application of excess Nitrogen • Incidence of Army worm Incidence of Turcicum leaf blight	• Trainings on ICM practices in maize • Supply of literature
				Rabi Sorghum	• Low productivity due to use of local variety • Incidence of Charcoal stem rot disease • Incidence of shoot fly, stem borer& fall army worm • Problem of lodging in existing variety	• Training on ICM practices in Rabi Sorghum • Supply of literature
				Foxtail Millet	• Lack of awareness on millet nutrition and value addition	• Training on preparation of millet products • Supply of literature
				Pearl Millet	• Low productivity in local variety • Lack of awareness on bio-fortified Pearl Millet VPMV-9 variety • Lack of awareness on value added products of Pearl Millet in daily diet	• FLD on bio-fortified Pearl Millet VPMV-9 variety • Training • Field visits and Field Day • Method demonstration of value added products of Pearl Millet
				Greengram	• Low yield due to use of local variety • Imbalanced nutrition • Low yield due to incidence of Powdery mildew and Pod borer • Seed shattering and discoloration problem during harvesting • High labour and drudgery involved in	• Training on ICM in Greengram • Supply of literature

Sl. 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
					manual weeding	
				Bengalgram	• Low yield due to cultivation of local varieties • Imbalanced nutrition and high cost of cultivation • Low yield due to incidence of pod borer • Incidence of Wilt and Rust	• Training on ICM practices in Bengalgram
				Safflower	• Low productivity due to cultivation of local variety • Incidence of sucking pests • Incidence of Capsule borer • Incidence of Alternaria leaf spot	• Training on ICM practices in Safflower • Supply of literature
				Onion	• Low productivity due to imbalanced nutrition • Low productivity due to cultivation of low yielding variety Double Red • Incidence of thrips reduces the yields	• OFT • FLD on introduction of Bhima Super variety along with ICM practices • Trainings on ICM in onion crop • Seed production activities with identified seed farmers • Supply of quality seeds of Bhima Super variety • Supply of relevant literature&Field day
				Red Chilli	• Non-availability of quality and pure seeds of Byadagi Dabbi • Lack of proper knowledge on ICM practices resulting in poor productivity and quality with high incidence of pest and diseases	• EDP • FLD on pure seed production in ByadagiChilli • Training on ICM • Supply of relevant literature • Farm advisory services • Rendering Kisan Mobile Advisory Services to farmers • Field day

Sl. 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
				Ajwain	• Lack of crop diversification • Low yield and income due to cultivation of existing variety(Kadapa)	• Assessment of Ajwain varieties for crop diversification • Training on climate resilient crops • Supply of literature
				Nutrition and health	• Less consumption of fruits and vegetables • Lack of awareness on nutrition and balance diet	• FLD on Nutri Garden • Training on balanced diet and nutrition • 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

2.9 Priority thrust areas

S. No	Thrust area
1	Soil fertility management through production and application of bio-manures
2	Conservation agriculture practice for higher productivity in Chickpea
3	Promotion of DBGV-204, NBeG-49 and Phule Vikram varieties of Bengalgram under protective irrigation
4	Promotion of SPV-2217 variety of Rabi Sorghum
5	Promotion of Foxtail Millet HN-46 and Bio-fortified Pearl Millet
6	Promotion of ODOP crop - Chilli
7	Assessment of recently released Safflower varieties for higher productivity
8	Demonstration of different varieties in vegetables, medicinal and aromatic crops
9	Promotion of nutri-farms
10	Popularisation of drudgery reduction equipments
11	Post harvest technologies in agriculture and horticultural crops
12	Livestock nutrition for higher milk productivity

PART III - TECHNICAL ACHIEVEMENTS

3.A. Target and Achievements of mandatory activities

OFT				FLD			
1				2			
OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
6	6	22	22	17	17	109	109

Training (Farmers/farm women)				Training (Rural youth)			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
98	111	4500	4653	10	11	350	395

Training (Extension personnel)				Training (sponsored)			
5				6			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
10	11	450	491	70	74	3000	3218

Training (Vocational)				Extension Programmes			
7				8			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
6	7	135	147	300	391	24000	24971

Seed Production (Q)		Planting material (Nos.)	
9		10	
Target	Achievement	Target	Achievement
65	69.14	50000	52320

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
11		12	
Target	Achievement	Target	Achievement
5	7	7500	7736

Soil, water, plant and manure analysis (including mobile kits)				Mobile agro advisories provided			
13				14			
Samples (No.)		Farmers (No.)		Messages including text, voice (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
800	848	800	820	100	104	110000	115086

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
1	Varietal demonstra tion	Rabi Sorghum	Low productivity in existing M-35-1 variety		Demonstra tion of SPV-2217 variety in Rabi Sorghum crop	2	-	-	6	0.75	-	-	-	5
2	Varietal Assessme nt	Rabi Sorghum	Low productivity in existing variety	Assessme nt of different Rabi Sorghum varieties for higher productivit y under rainfed condition	-	2	-	-	4	1.05	-	-	-	5
3	Varietal demonstra tion	Foxtail Millet	Low production due to use of local variety		Demonstra tion of ICM in HN-46 variety of Foxtail Millet and value addition	2	1	1	1	0.25	-	-	-	-
4	Varietal demonstra tion	Pearl Millet	Low production due to use of local variety		Demonstra tion of bio-fortified VPMV-9 variety of	4	-	-	4	0.25	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
					Pearl Millet and value addition									
5	Varietal Assessment	Greengram	Low productivity due to cultivation of local variety	Assessment of high yielding varieties of Greengram	-	02	-	-	05	0.5	-	-	-	-
6	Varietal Demonstration	Greengram	Low productivity due to cultivation of local variety (Shining moong)	-	Demonstration of DGGV-2 variety of Greengram crop	03	-	-	08	1.75	-	-	-	17.5
7	Intercropping system	Maize + Redgram	Low income due to mono cropping	-	Maize + Redgram intercropping system	02	-	-	06	0.60	-	-	-	10.0
8	ICM	Maize	Low productivity due to imbalanced nutrition	-	Demonstration of ICM in Maize crop	02	-	-	05	-	-	-	-	400.00
9	Varietal Assessment	Bengalgram	Productivity of JG-11 variety is low	Assessment of potential productivit	-	4	-	-	5	5.0	-	-	-	1.5

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
				y of Bengalgram Varieties under Irrigated condition										
10	ICM	Bengalgram	Low yield in existing varieties	-	Demonstration of JAKI-9218 vareity of Bengalgram crop	3	-	-	6	4	-	-	-	14
11	Farm Machinery	Bengalgram	Low productivity due to moisture stress and receding soil moisture	-	Demonstration of Tractor Operated Compartmental Bund Former in Bengalgram crop	02	-	-	05	-	-	-	-	-
12	Farm Machinery	Bengalgram	i. Low productivity due to no nipping ii. High labour and time consumption in hand nipping method	-	Demonstration of Solar Nipping machine in Bengalgram crop	03	-	-	10	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
13	Varietal demonstration	Soybean	Low production of JS 335 variety	-	Demonstration on DSB-34 variety of Soybean crop	2	-	-	6	1.25	-	-	-	-
14	Varietal assessment	Safflower	Low productivity due to cultivation of existing variety	Assessment of different Safflower varieties for higher productivity	-	2	-	-	4	0.27	-	-	-	-
15	ICM	Redgram	Low productivity due to cultivation of exiting variety	-	Demonstration of ICM in GRG-152 variety of Redgram crop	2	-	-	5	0.30	-	-	-	5
16	INM	Summer Groundnut	Low yield due to imbalanced nutrition & lack of knowledge on application of micro nutrients		Demonstration of INM in Summer Groundnut	3	-	-	8	-	-	-	-	500
17	Farm Mechanization	Summer Groundnut	i) High labour and time	-	Demonstration of Tractor	02	-	-	10	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
			requiremen t in manual harvesting method ii) Pod damage in harrowing method		operated Groundnut Digger cum Elevator									
18	Farm Mechaniz ation	Mutliple crops	i. High cost of operation in manual weeding method ii. Drudgery of operation involved in manual weeding	-	Demonstra tion of Engine Operated Weeder	03	-	-	10	-	-	-	-	-
19		Maize & Chilli	i. Burning of crop residues ii. Improper soil incorporati on of crop residues leading to delayed sowing	-	Demonstra tion of Tractor Operated Mulcher for Effective Crop Residue Managem ent	02	-	-	05	-	-	-	-	-
20	Integrated Crop Managem	Onion	Non availability of quality	-	Demonstra tion of Onion	2	-	-	8	0.03	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
	ent		seeds of Improved onion varieties and Lack of knowledge on scientific seed production practices		Seed production enterprise									
21	EDP	Red Chilli (Byadagi Dabbi)	i) Non-availability of quality and pure seeds of Byadagi Dabbi, high incidence of sucking pests leading to murda complex disease & anthracnose disease ii) Lack of proper knowledge on ICM practices	-	EDP on Byadgi chilli seed production enterprise (Krishna Prabha Rudra)	2	-	-	4	0.02	1000 marigold seedlings	-	4	4Kg: *Beauveria bassiana*

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
			resulting in poor productivity and quality Improper post-harvest management											
22	Varietal Assessment	Onion	1) Long duration varieties affecting the market price and 2) Light coloured onion bulbs fetch less market price	Assessment of onion varieties for earliness and higher productivity	-	5	-	-	12	0.06	-	-	-	-
23	Health & Nutrition	Nutrition Garden	Lack of awareness on Nutri Garden & less consumption of fruits and vegetables	-	Nutri Garden	6	1	2	15	10 Kg	175	-	-	1025
24	Grain storage	Super grain bags	Incidence of stored pest in grains	-	Demonstration of Super grain bags	2	-	-	12	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				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 (No.)	Supply of seeds (Qtl.)	Supply of plantin g materia ls (No.)	Supply of live-stock (No.)	Supply of bio products	
													No.	Kg
25	Nutrition Managem ent in dairy animals	Fodder production	Low productivity of milk in CB cow due to Non-cultivation of perennial fodder and grass species	-	Demonstra tion of green fodder & feeding to milch cattle	1	5	1	8	0.12	15000	-	-	-

3.B2. Details of technology used during reporting period

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Extension activities)
1	2	3	4	5	6	7	8
1	Assessment of different Rabi Sorghum varieties for higher productivity under rainfed condition	UAS, Dharwad	Rabi Sorghum	3	0	2	4
2	Demonstration of SPV-2217 variety in Rabi Sorghum crop	UAS, Dharwad	Rabi Sorghum	-	25	2	6
3	Demonstration of ICM in HN-46 variety of Foxtail Millet and value addition	UAS,Raichur	Foxtail Millet	-	10	2	6
4	Demonstration of ICM in bio-fortified VPMV-9 variety of Pearl Millet and value addition	UAS, Dharwad	Pearl Millet	-	10	4	4
5	Demonstration on ICM in Maize crop	UAS, Dharwad	Maize	-	20	2	5
6	Demonstration of ICM in Maize + Redgram intercropping system	UAS, Dharwad	Maize &Redgram	-	20	2	6
7	Assessment of high yielding varieties of Greengram	UAS, Dharwad	Greengram	3	-	3	5
8	Demonstration of ICM in DGGV-2 variety of Greengram	UAS, Dharwad	Greengram	0	43	8	2
9	Assessment of potential productivity of Bengalgram varieties	UAS, Dharwad ANGRAU, Guntur	Bengalgram	5	-	4	5
10	Demonstration of JAKI-9218 vareity of Bengalgram crop	UAS, Dharwad	Bengalgram	-	15	3	6
11	Demonstration of Tractor Operated Compartmental Bund Former in Bengalgram crop	UAS, Raichur	Bengalgram	-	20	2	5
12	Demonstration of solar nipping machine in Bengalgram crop	UAS, Raichur	Bengalgram	-	10	3	10
13	Demonstration of ICM in GRG-152 variety of Redgram crop	UAS, Raichur	Redgram	-	10	2	5
14	Demonstration of DSb-34 variety of Soybean	UAS, Dharwad	Soybean	-	5	2	6

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Extension activities)
15	Assessment of ISF-764, A-2020 & DSAF-1 Safflower varieties for higher productivity	ICAR-IIOR, Hyderabad & UAS, Dharwad	Safflower	3	-	2	4
16	Demonstration of INM in Summer Groundnut	UAS, Dharwad	Groundnut	-	6	3	8
17	Demonstation of Tractor operated Groundnut Digger cum Elevator	TNAU, Coimbatore	Summer Groundnut	-	10	2	10
18	Demonstration on Onion Seed production enterprise	UAS Bagalkot and ICAR-DOGR, Pune	Red Onion	-	3	4	8
19	EDP on Byadgi chilli seed production enterprise (Krishna Prabha Rudra)	UAS Bagalkot and UAS, Dharwad	Red chilli	-	2	2	8
20	Assessment of Ajwain varieties for crop diversification	ICAR-NRC on Seeds Spices, Ajmer	Ajwain	3	0	3	8
21	Assessment of onion varieties for earliness and higher productivity	ICAR-DOGR, Pune, NHRFD, Nashik and UAS Bagalkot	Onion	3	3	2	12
22	Engine Operated Weeder	UAS, Raichur	Farm Machinery	-	10	3	10
23	Tractor Operated Mulcher	PAU, Ludhiana	Farm Machinery	-	10	2	5
24	Nutrition Garden	UAS, Bengaluru	Health and nutritional security	-	15	9	15
25	Super grain bags	UAS, Raichur	Grain storage	-	40	2	12
26	Demonstration of Fodder production	ICAR-IGFRI, RRS, Dharwad & UAS, Dharwad	CB Cows	-	10	7	8

3.B2 contd..

	No. of farmers covered															
	OFT				FLD				Training				Others (Extension activities)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assessment of different Rabi Sorghum varieties for higher productivity under rainfed condition	0	0	3	0	0	0	0	0	42	18	8	4	80	28	10	8
Demonstration of SPV-2217 variety in Rabi Sorghum crop	0	0	0	0	0	0	20	5	8	4	30	7	60	30	58	4
Demonstration of ICM in HN-46 variety of Foxtail Millet and value addition	0	0	0	0	6	2	2	0	41	9	3	13	50	15	19	8
Demonstration of ICM in VPMV-9 variety of Pearl Millet and value addition	0	0	0	0	9	1	0	0	30	24	9	6	36	52	18	15
Demonstration on ICM in Maize crop	0	0	0	0	0	0	20	0	0	0	38	28	17	12	45	38
Demonstration of ICM in Maize + Redgram intercropping system	0	0	0	0	0	0	15	5	0	0	42	20	10	8	54	46
Assessment of high yielding varieties of Greengram	02	0	01	0	0	0	0	0	55	25	8	2	44	12	5	1
Demonstration of ICM in DGGV-2 variety in Greengram crop	0	0	0	0	10	0	26	7	73	27	26	12	42	22	5	4
Assessment of potential productivity of Bengalgram varieties under Irrigted condition	0	0	5	0	0	0	0	0	10	13	27	11	14	9	25	13

	No. of farmers covered															
	OFT				FLD				Training				Others (Extension activities)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Demonstration of JAKI-9218 vareity of Bengalgram crop	0	0	0	0	0	0	15	0	19	11	38	14	30	13	48	5
Demonstration of tractor operated bund former in Bengalgram crop	0	0	0	0	16	02	02	0	34	07	07	02	27	03	08	00
Demonstration of solar nipping machine in Bengalgram crop	0	0	0	0	8	0	02	0	27	04	05	03	33	04	05	03
Demonstration on ICM in GRG-152 variety of Redgram crop	0	0	0	0	0	0	8	2	13	9	28	14	17	10	23	11
Demonstration of DSb-34 variety of Soybean	0	0	0	0	0	0	5	0	15	3	42	12	13	06	21	02
Assessment of ISF-764, A-2020 & DASF-13 Safflower varieties for higher productivity	0	0	0	0	0	0	3	0	45	10	4	1	20	10	6	2
Demonstration of INM in Summer Groundnut	0	0	0	0	0	0	6	0	10	8	19	7	13	8	28	5
Demonstration of Tractor operated Groundnut Digger cum Elevator	0	0	0	0	9	0	1	0	48	05	08	01	31	06	04	01
Demonstration on Onion Seed production enterprise	0	0	0	0	2	1	0	0	48	21	18	12	68	18	39	15
EDP on Byadgi chilli seed production enterprise (Krishna Prabha Rudra)	0	0	0	0	2	0	0	0	32	12	8	5	55	23	28	12

	No. of farmers covered															
	OFT				FLD				Training				Others (Extension activities)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assessment of Ajwain varieties for crop diversification	4	0	1	0	0	0	0	0	68	27	10	8	78	51	16	8
Assessment of onion varieties for earliness and higher productivity	3	0	0	0	0	0	0	0	43	12	24	6	73	23	45	14
Engine Operated Weeder	0	0	0	0	10	0	10	0	33	06	21	04	29	03	16	02
Tractor Operated Mulcher	0	0	0	0	05	0	05	0	36	07	19	02	27	03	18	02
Nutrition Garden	0	0	0	0	0	12	0	3	25	245	10	17	45	204	5	20
Supe grain bags	0	0	0	0	12	23	3	2	11	30	3	6	20	35	4	6
Demonstration of Fodder production	0	0	0	0	5	0	5	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	Spice / Medicinal crops	TOTAL
Bee Keeping											
Biological control											
Canopy Management											
Crop Diversification											
Cropping Systems											
Drudgery Reduction											
Farm Machineries											
Fertigation Technique											
Fodder and Nursery raising											
High Density Planting											
Information and Communication Technology											

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Spice / Medicinal crops	TOTAL
Integrated Crop Management											
Integrated Disease Management											
Integrated Farming System											
Integrated Nutrient Management											
Integrated Pest and Disease Management											
Integrated Pest Management											
Natural Farming											
Organic cultivation											
Plasticulture											
Post Harvest Technology											
Protected Cultivation											
Resource Conservation Technology											
Seed / Plant production											
Soil health management											
Storage Technique											
Varietal Evaluation	01	01	02		01					01	
Water management											
Weed Management											
Others, pl. specify											
Total	**01**	**01**	**02**		**01**					**01**	

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 : 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 : 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 technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Bee Keeping						

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Biological control						
Canopy Management						
Crop Diversification	Ajwain	Assessment of Ajwain varieties for crop diversification	5	5	5	1.2 ha / trial (Total: 6.0 ha)
Cropping Systems						
Drudgery Reduction						
Farm Machineries						
Resource Conservation Technology						
Farm Machineries						
Fertigation Technique						
Fodder and Nursery raising						
High Density Planting						
Integrated Crop Management						
Integrated Disease Management						
Integrated Farming System						
Integrated Nutrient Management						

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Pest and Disease Management						
Integrated Pest Management						
Natural Farming						
Organic cultivation						
Plasticulture						
Post Harvest Technology						
Protected Cultivation						
Resource Conservation Technology						
Seed / Plant production						
Soil health management						
Storage Technique						
Varietal Evaluation						
	Greengram	Assessment of Production Potential of Different Greengram Varieties under Rainfed Condition	3	3	3	1.2 ha/trial (Total :3.6 ha)
	Bengalgram	Assessment of potential productivity of Bengalgram varieties under irrigated condition	5	5	5	1.6 ha / trial (Total :8 ha)
	Safflower	Assessment of ISF-764, A-2020 & DSAF-1 Safflower varieties for higher productivity	3	3	3	1.2 ha/trial (Total :3.6 ha)
	Rabi	Assessment of different Rabi Sorghum	3	3	3	0.2 ha / trial

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
	Sorghum	varieties for higher productivity under rainfed condition				(Total: 3.6 ha)
	Onion	Assessment of onion varieties for earliness and higher productivity	3	3	3	1.2 ha / trial (Total: 3.6 ha)
Water management						
Weed Management						
Total			**22**	**22**	**22**	

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

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all the Technological Options in farm)
Integrated Nutrient Management						
Varietal Evaluation						
Integrated Pest Management						
Integrated Crop Management						
Integrated Disease Management						
Small Scale Income Generation Enterprises						
Weed Management						
Resource Conservation Technology						

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all the Technological Options in farm)
Farm Machineries						
Integrated Farming System						
Seed / Plant production						
Value addition						
Drudgery Reduction						
Storage Technique						
Mushroom cultivation						
Cropping Systems						
Farm Mechanisation						
Others, Pl. Specify						
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				
Processing and Value addition				
Production and management				
Feed and fodder management				
Small scale income generating enterprises				
Others, pl. specify				
Total				

4.B.4. Technologies Refined 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				
Processing and Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Others, pl. specify				
Total				

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

Sl. No.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of Technological options tested in each OFT	No. of trials	No. of locations
1	Agroforestry management					
2	Bee keeping					
3	Crop residue management					
4	Drudgery reduction					
5	Energy conservation					
6	Entrepreneurship Development					
7	Fish seed production					
8	Household food security					
9	Information and Communication Technology (ICT)					
10	Integrated Farming system					
11	Mechanization					
12	Mushroom Cultivation					
13	Nursery raising					
14	Organic farming					
15	Post Harvest Management					

Sl. No.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of Technological options tested in each OFT	No. of trials	No. of locations
16	Livestock Production and Management					
17	Processing and value addition					
18	Resource conservation technology					
19	Small-scale income generation					
20	Storage techniques					
21	Vermicomposting					
	Others, pl. specify					

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

	Thematic areas	Name of enterprise	Name of technology(s)	No. of Technological options tested in each OFT	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. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Greengram	Rainfed	Low productivity due to cultivation of local variety	Assessment of Production Potential of Different Greengram Varieties under Rainfed Condition	3	**T.O.1 (Farmers' practice):** Shining Moong	-	6.21	q/ha	23.5	52150	24217	1.87
					T.O.2: BGS-9 variety	UAS, Dharwad	7.42	q/ha	28.4	62300	33475	2.16
					T.O.3: DGG-1 variety	UAS, Dharwad	7.83	q/ha	33.45	65800	36975	2.28

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	DGG-1 variety grows taller than BGS-9 and Shining moong. It is non shattering and suitable for mechanical harvesting	• Non availability of seeds on larger scale

4.C3. Details of Successfully completed 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 (q/ha)	% Increase in yield	Net returns (Rs/ha)	B:C Ratio
T1:Local: Shining Moong	75	33.52	9.32	4.50	6.21	-	24217	1.87
T2: BGS-9	70	40.60	11.51	5.32	7.42	19.47	33475	2.16
T3: DGG-1	75	43.50	12.13	5.40	7.83	26.22	36975	2.28

3. Specific Feedback from farmers: DGG-1 variety grows taller than shining moong & BGS-9 and it 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 : No shattering of pods in DGG-1 is observed

6. Feedback on usefulness and constraints of technology: Farmers in Gadag district are annually going for mechanical harvesting and DDG-1 is suitable for mechanical harvesting. Hence, farmers are preferring DDG-1.

(II) 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 (Plant height (cms))	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
Rabi Sorghum	Rainfed	Low productivity due to cultivation of local variety	Assessment of different Rabi Sorghum varities for higher productivity under rainfed condition	3	**T.O.1 (Farmers' practice):** M-35-1	-	12.33	q/ha	217.5	34510	18860	2.21
					T.O.2: Cultivation of SPV-2217	UAS, Dharwad	15.85	q/ha	315.7	47550	31050	2.89
					T.O.3: Assessment of CSV-29-R variety	UAS, Dharwad	15.25	q/ha	276.8	47750	28950	2.73

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 Rabi Sorghum varieties for higher productivity under rainfed condition	SPV-2217 & CSV-29R varieties are high yielding. No constraints for adoption in rainfed area	• SPV-2217 variety seeds need to be made available in large quantity in the district

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

1. Title of Technology Assessed: Assessment of Rabi Sorghum varieties for higher productivity under rainfed condition

2. Performance of the Technology on specific indicators

Varieties	Grain yield (q/ha)	Plant height (cm)	Lodging (%)	Net returns (Rs/ha)	B:C Ratio
T1:Local: M-35-1	12.33	217.5	8.61	18860	2.21
T2: SPV-2217	15.85	315.7	2.68	31050	2.89
T3: CSV-29R	15.25	276.8	3.53	950	2.73

Organoleptic evaluation of Rotis

Sl. No	Parameters	M 35-1	SPV-2217	CSV-29R
1	Colour of roti	I	I	I
2	Taste of roti	I	I	II
3	Stickiness of dough	I	I	II
4	Non-watery texture of dough	I	I	II
5	Overall acceptability	I	I	II
6	Quality of Roti of 30 days flour	I	I	II

3. Specific Feedback from farmers: SPV-2217 yieds more than local and CSV-29R varieties. Secondly SPV-2217 equals M 35-1 in organoleptic evaluation. Hence, SPV-2217 is accepted because of higher yield and good organoleptic characters.

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: Both SPV-2217 and CSV-29R varieties have performed very well. Farmers found both varieties very suitable in getting higher yield and net returns as compared to local. Organoleptically, farmers preferred SPV-2217 over CSV-29R.

(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 (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
Bengalgram	Protective irrigation	Productivity of JG-11 variety is low under irrigated condition	Assessment of potential productivity of different varieties	5	**T.O.1 (Farmers' practice)** Cultivation of JG-11 variety	-	10.25	Qtl/ha	42.33	56375	35355	2.68
					T.O.2: Cultivation of JAKI-9218 variety	UAS, Dharwad	12.33	Qtl/ha	58.60	66555	45505	3.16
					T.O.3 : Assessment of DBGV-204 variety	UAS, Dharwad	12.80	Qtl/ha	46.16	72960	51085	3.34
					T.O.4 : Assessment of NBeG-452 variety	RARS,Nandyal (ANGRAU), Hyderabad	13.28	Qtl/ha	51.23	75668	53193	3.37
					T.O.5 : Assessment of Phule Vikram variety	MPKV, Rahuri	15.53	Qtl/ha	60.18	92374	69324	4.01

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 JAKI-9218, DBGV-204, NBeG-452 and Phule Vikram varieties	NBeG-452 and Phule Vikram varieties are high yielding and suitable for mechanical harvesting. No constraints in adoption of these varieties.	Phule Vikram variety seeds need to be made available in large quantity especially in command area villages.

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

1. **Title of Technology Assessed :**Assessment of potential productivity of DBGV-204, NBeG-452 and Phule Vikram varieties
2. **Performance of the Technology on specific indicators**

Technology Assessed	Performance indicators						
	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	10.25	35355	2.68	42.33	34.23	22.10	109
Recommended practice: Cultivation of JAKI-9218 variety	12.33	45505	3.16	58.60	36.20	22.65	111
Alternate practice-1: Assessment of DBGV-204 variety	12.80	51085	3.34	46.16	40.12	23.60	113

Technology Assessed	Performance indicators						
	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	Plant height (cm)	No. of pods/plant	Test weight (g)	Duration (Days)
Alternate practice-2: Assessment of NBeG-452 variety	13.28	53193	3.37	51.23	48.36	23.40	114
Alternate practice-3: Assessment of Phule Vikram variety	15.53	69324	4.01	60.18	66.49	27.84	113

3.**Specific Feedback from farmers:**NBeG-452 and Phule Vikram varieties are high yielding and suitable for mechanical harvesting. No constraints in adoption of these varieties.

4.**Specific Feedback from Extension personnel and other stakeholders:C**heck suitability of Phule Vikram variety under rainfed condition also.

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

6. **Feedback on usefulness and constraints of technology :**Both NBeG-452 and Phule Vikram varieties have performed very well. Farmers found both these varieties very useful in getting higher productivity and net returns

(IV) 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./ha	Net Return Rs. / ha	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Safflower	Rainfed	Low productivity due to cultivation of local variety	Assessment of ISF-764, A-2020 and DSAF-1 varieties for higher productivity	6	**T.O.1 (Farmers' practice) / Recommended practice** Cultivation of local A-1 variety	UAS, Dharwad	8.13	Qtl. /ha.	24.6	39000	21333	2.24
					T.O.2 Assessment of ISF-764 variety	IIOR, Hyderabad	9.54	Qtl. /ha	33.3	48663	30621	2.70
					T.O.3 Assessment of A-2020 variety	UAS, Dharwad	10.58	Qtl. /ha	41.6	52917	34333	2.85
					T.O.4 Assessment of DSAF-1 variety	UAS, Dharwad	11.63	Qtl. /ha	37.6	60450	41617	3.21

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, A-2020 and DSAF-1 varieties for higher productivity	DSAF-1 variety has following advantages • More number of capsules per plant • Higher grain weight	DSAF-1 variety seeds need to be made available in large quantity in the district.

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

1. **Title of Technology Assessed :** Assessment of ISF-764, A-2020 and DSAF-1 varieties for higher productivity

2. **Performance of the Technology on specific indicators**

Technology Assessed	Performance indicators					
	Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	% increase in yield	No. of capsules / plant	Plant Height (cm)
Farmer's practice: Cultivation of A-1 variety	8.13	21333	2.21	-	24.6	77.5
Alternate practice-1: Assessment of ISF-764 variety	9.54	30621	2.70	14.77	33.6	90.3
Alternate practice-2: Assessment of A-2020 variety	10.58	34333	2.85	23.15	41.6	100.4
Alternate practice-2: Assessment of DSAF-1 variety	11.63	41617	3.21	30.09	37.6	112.5

3.**Specific Feedback from farmers:** DSAF-1 and A-2020 varieties gave better yield compared to other varieties and number of capsules were more in A-2020 variety

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: DSAF-1 & A-2020 varieties have resulted in more yield & net returns

(V) 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 bulb weight in gms)	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
Onion	Rainfed	Long duration varieties affecting the market price and Light coloured onion bulbs fetch less market price	Assessment of onion varieties for earliness and higher productivity	3	**T.O.1 (Farmer practice)** Cultivation of Ballery Red	-	43.99	Qtl/ha	92.11	81828	58228	3.46
					T.O.2 Assessment of Onion variety Bhima Super	ICAR-DOGR, Pune,	52.54	Qtl/ha	109.76	118219	92949	4.67
					T.O.3 Assessment of Onion variety K-883	NHRFD, Nashik	51.54	Qtl/ha	105.02	105660	81010	4.28

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 onion varieties for earliness and higher productivity	• Bhima Super performed better under more soil moisture conditions and the scales remained adhered to the bulbs after harvest compared to K-883. • The average crop duration of Bhima Super variety was 120 days, whereas that of K-883 was 114 days.	-

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

1. **Title of Technology Assessed :** Assessment of onion varieties for earliness and higher productivity

2. **Performance of the Technology on specific indicators**

Technology Assessed	Performance indicators					
	Yield (Qtl/ha)	**Net Returns (Rs./ha)**	**B.C. Ratio**	**% increase in yield**	**Average Bulb weight (g)**	**Average duration of the crop (Days)**
Farmer's practice: Cultivation of Bellary Red variety	43.99	58228	3.46	-	92.11	115
Alternate practice-1: Assessment of Bheema Super variety	52.54	92949	4.67	19.43	109.76	120
Alternate practice-2: Assessment of K-883 variety	51.54	81010	4.28	17.16	105.02	113.8

3.**Specific Feedback from farmers:** Bhima Super variety has got more individual bulb weight and total bulb yield, The scales remain adheared to bulbs. It can perform better in rainfed as well as excess soil moisture conditions. Duration of the Bhima Super is 6 days more than K-883 but due to better quantitative parameters Bhima super is good variety as perceived by the farmers.

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:** Bheema Super performed better under more soil moisture conditions also and the scales remained adhered to the bulbs after harvest compared to K-883.

(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 (Umbels/Plant)	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
Ajwain	Rainfed		Assessment of Ajwain varieties for crop diversification	5	**T.O.1 (Farmer practice)** Cultivation of Kadapa variety	-	4.60	Qtl/ha	99.78	57960	26900	1.87
					T.O.2 Assessment of Ajwain variety Ajmer Ajwain 73	ICAR-NRC on seeds spices, Ajmer	5.48	Qtl/ha	126.23	68985	37700	2.21
					T.O.3 Assessment of Ajwain variety Ajmer 93	ICAR-NRC on seeds spices, Ajmer	5.30	Qtl/ha	109.16	66843	35618	2.14

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 Ajwain varieties for crop diversification	Ajmer Ajwain-73 variety has got highest number of umbels per plant and test weight of the seeds compared to other ajwain varieties.	More labour intensive harvesting method and labour wages are more.

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

1. **Title of Technology Assessed :** Assessment of Ajwain varieties for crop diversification

2. **Performance of the Technology on specific indicators**

Technology Assessed	Performance indicators								
	Yield (Qtl/ha)	**Net Returns (Rs./ha)**	**B.C. Ratio**	**% increase in yield**	**Plant height (cm)**	**Number of primary branches/plant**	**No. of umbels per plant**	**Test weight (g)**	**Duration (Days)**
Farmer's practice: Cultivation of Kadapa variety	4.60	26900	1.87	-	93.26	9.68	99.78	0.83	180
Alternate practice-1: Assessment of Ajwain variety Ajmer Ajwain 73	5.48	37700	2.21	19.02	115.62	13.25	126.23	1.40	180
Alternate practice-2: Assessment of Ajwain variety Ajmer 93	5.30	35617	2.14	15.32	118.17	15.49	109.16	1.26	168

3.**Specific Feedback from farmers:** Ajmer Ajwain -73 has got more number of umbels per plant (126.23) and highest test weight of seeds (1.40g).

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**: Ajmer Ajwain -73 has got more number of umbels per plant (126.23) and highest test weight of seeds (1.40g). The duration of Ajmer Ajwain variety is more compared to Ajmer Ajwain -93.

** Photographs are attached in JPEG format

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	Gross Return Rs./unit	Net Return Rs. / unit	BC Ratio
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

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
	Oilseeds													
1		Rainfed	Summer	Summer Groundnut			INM	Demonstration of INM in Summer Groundnut	8	8	10	0	10	0
2		Irrigated	Summer	Summer Groundnut			Farm Machineries	Tractor operated Groundnut digger cum elevator	4	4	1	9	7	3
	Pulses													
3		Rainfed	Kharif	Redgram	GRG-152	-	ICM	Demonstration of ICM practices in GRG-152 variety of Redgram	4	4	8	0	2	0
4		Rainfed	Rabi	Bengalgram	JAKI-9218	-	ICM practices	Demonstration of ICM practices in JAKI-9218 variety of Bengalgram crop	8	8	10	0	10	0
5		Rainfed	Rabi	Bengalgram			Farm Machineries	Tractor operated Compartmenta Bund Former	8	8	2	18	14	6
6		Rainfed	Rabi	Bengalgram			Farm Machineries	Solar Nipping Machine	4	4	2	8	10	0
7		Rainfed	Kharif	Greengram	DGGV-2	-	ICM	Demonstration on ICM DGGV-2 variety in Greengram	17.2	17.2	33	10	42	11

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
								crop						
	Cereals													
8		Rainfed	Rabi 2024-25	Rabi Sorghum	SPV- 2217	-	Varietal demonstration	Demonstration of SPV-2217	10	10	10	0	10	0
	Millets													
9		Rainfed	Kharif, 2025-26	Foxtail Millet	HN-46		ICM in Foxtail Millet & value addition	Demonstration of ICM in HN-46 variety in Foxtail Millet & value addition	4.0	4.0	4	6	3	7
10		Rainfed	Kharif 2025-26	Pearl Millet	VPMV-9		Demonstration of Bio-fortified variety	Demonstration of bio-fortified Pearl Millet variety VPMV-9 & value addition	2.0	2.0	0	5	1	4
	Vegetables													
11		Bulb production in Rainfed and Seed production in Irrigated area	Kharif 2025-26	Onion	Bhima Super	-	Varietal demonstration	Demonstration on Onion Seed production enterprise	3.6	3.6	0	3	2	1
	Flowers													
	Ornamental													
	Fruit													
	Spices and condiments													
12		Rainfed	Kharif 2025-26	Chilli	Krishna Prabha Rudra	-	ICM and Seed production	EDP on Byadgi chilli seed production enterprise	0.8	0.8	0	2	1	1

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
								(Krishna Prabha Rudra)						
	Commercial													
13	Fodder	Irrigated	Kharif 2025-26	Perennial fodder crops	Super Napier, Multicut COFS-31, Guinea grass, Rhodes grass, Signal grass: Lucerne, StyloHamata & Scabra & Sesbania grandiflora seeds, Cowpea, Subabul & Fodder oats	-	Nutrition Management in dairy animals	Demonstration on Fodder Production & feeding to milch animals for enhanced milk productivity	04	04	5	5	8	2
	Plantation													
	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
	Piggery													
	Sheep and goat													
	Duckery													
	Common carps													

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
14		Rainfed & Irrigated	Kharif & Rabi	Multiple crops	-	-	Farm Machineries	Engine Operated Roraty Weeder	8	8	10	10	18	02
15		Rainfed	Kharif 2025-26	Maize & Chilli	-	-	Farm Machineries	Tractor Operted Mulcher	4	4	05	05	04	06
	Others (specify)													
16	Nutri Garden	Irrigated & Rainfed	Kharif & Rabi	Vegetables	-	-	Nutrition	Demonstration of Nutri Garden	-	-	4	21	22	3
17	Grain storage		Kharif & Rabi	Greengram& Bengalgram	-	-	Grain storage	Demonstration of Super grain bags	-	-	5	35	40	0

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

Sl. 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	P	K	
1	Pulses	Rainfed	Kharif 2025-26	Redgram	GRG-152	-	ICM	Demonstration of ICM practices in Redgram variety	Kharif 2025-26	L	M	M	Rabi Sorghum
2		Rainfed	Kharif 2025-26	Greengram	DGGV-2	-	ICM	Demonstration on ICM in DGGV-2 variety of Greengram	Kharif 2025-26	L	M	M	Rabi Sorghum
3	Oilseeds	Rainfed	Summer 2024-25	Summer Groundnut			INM	Demonstration of INM in Summer Groundnut	Summer 2024-25	L	L	M	Maize
4		Rainfed	Kharif 2025-26	Soybean	DSb-34	-	ICM	Demonstration of ICM in DSB-34 variety of Soybean	Kharif 2025-26	L	M	M	Rabi Sorghum
	Pulses												
5		Rainfed	Rabi 2024-25	Bengalgram	JAKI-9218	-	ICM practices	Demonstration of ICM practices in JAKI-9218 variety of Bengalgram crop	Rabi 2024-25	L	M	M	Greengram
6		Rainfed	Kharif 2025-26	Greengram	DGGV-2	-	Varietal demonstration	Demonstration of DGGV-2 variety in Greengram crop	Kharif 2025-26	L	M	M	Rabi Sorghum
7		Rainfed	Kharif 2025-26	Greengram	DGGV-2	-	Farm Machineries	Demonstration of engine operated weeder in Greengramcrop	Kharif 2025-26				
	Cereals												
8		Rainfed	Rabi 2024-25	Rabi Sorghum	SPV-2217	-	ICM	Demonstration of SPV-2217 variety	Rabi 2024-25	L	L	H	Greengram & fallow land
9		Rainfed	Kharif 2025	Maize	-	CP-201	ICM	Demonstration on ICM in Maize crop	Kharif 2025	L	L	L	Groundnut
10	Intercropping	Rainfed	Kharif 2025	Maize + Redgram	Redgram-GRG-152	Maize – CP-204	Intercropping	Demonstration on ICM in Maize + Redgram Intercropping system	Kharif 2025	L	L	L	Groundnut
	Millets												
11		Rainfed	Khairf, 2025	Foxtail Millet	HN-46		ICM	Demonstration of ICM in HN-46 variety in Foxtail Millet	Khairf, 2025	L	M	M	Spreading Groundnut & fallow land
12		Rainfed	Kharif 2025	Pearl Millet	VPMV-9		ICM	Demonstration of ICM in bio-fortified VPMV-9 variety of Pearl Millet	Kharif 2025	L	M	M	Rabi Sorghum
13	Vegetables	Rainfed	Kharif 2025	Onion	Bhima Super	-	ICM	Demonstration on Onion Seed	Kharif 2025				Chickpea

Sl. 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	P	K	
							practices	production enterprise					
	Flowers												
	Ornamental												
	Fruit												
14	Spices and condiments	Rainfed	Kharif 2025	Dry chilli	Krishna Prabha Rudra	-	ICM and Seed production Byadgi Chilli	EDP on Byadgi chilli seed production enterprise (Krishna Prabha Rudra)	Kharif 2025				Rabi Sorghum
	Commercial												
	Medicinal and aromatic												
15	Fodder	Irrigated	Kharif 2025	Perennial Fodder crops	Super Napier, Multicut COFS-31, Guinea grass, Rhodes grass, Signal grass: Lucerne, StyloHamata & Scabra & Sesbania grandiflora seeds, Cowpea, Subabul & Fodder oats	-	Nutrition Management in dairy animals	Demonstration on Fodder Production	Kharif 2025	L	M	M	Bengalgram & Rabi Sorghum
	Plantation												
	Fibre												
	Sericulture												

5.B. Results of FLDs
5.B.1. Crops

Crop name	Name of the technology demonstrated	Variety	Thematic Area	No. of Demo.	Area (ha)	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)				Economics of Check (Rs./ha)			
						Demo	Check		COC	Gross Return	Net Return	BCR	COC	Gross Return	Net Return	BCR
Redgram	Demonstration of ICM practices in GRG-152 variety in Redgram	GRG-152	Varietal demonstration	10	4	7.75	5.28	46.78	19858	41075	21218	2.07	17656	26375	8719	1.49
Summer Groundnut	Demonstration of INM in Summer Groundnut	DH-256	INM	20	8	16.11	12.93	24.59	51428	93453	42025	1.82	43723	74965	31243	1.71
Soybean	Demonstration of ICM in DSb-34 variety in Soybean	DSb-34	ICM	5	2	15.25	13.10	16.40	33870	76250	42380	2.25	33450	64190	30740	1.92
Greengram	Demonstration of DGGV-2 variety in Greengram crop	DGGV-2	Varietal demonstration	43	17.2	7.18	5.8	23.79	23019	58907	35888	2.56	21835	48052	26217	2.20
Bengalgram	Demonstration of ICM practices in JAKI-9218 variety in Bengalgram crop	JAKI-9218	Varietal demonstration	20	8	10.39	7.11	46.13	22044	56094	34050	2.55	19231	36985	17754	1.92
Maize	Demonstration of ICM in Maize crop	-	ICM	20	8	52.06	47.16	10.39	35328	96316	60988	2.73	33379	87239	53860	2.62
Rabi Sorghum	Demonstration of SPV-2217 variety	SPV-2217	Varietal demonstration	25	10	14.76	10.66	38.46	17203	44265	27062	2.57	15425	29315	13891	1.90

Crop name	Name of the technology demonstrated	Variety	Thematic Area	No. of Demo.	Area (ha)	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)				Economics of Check (Rs./ha)			
						Demo	Check		COC	Gross Return	Net Return	BCR	COC	Gross Return	Net Return	BCR
Maize + Redgram	Demonstration of ICM in Maize + Redgram intercropping system	Redgram GRG-152	Intercropping	20	8	60.32	46.01	30.42	44145	111585	67440	2.53	34368	85123	50756	2.48
Foxtail Millet	Demonstration of ICM in HN-46 variety of Foxtail Millet & value addition	HN-46	Varietal demonstration & value addition	10	4	11.75	7.49	56.93	14480	35838	21358	2.48	13888	22463	8575	1.62
Pearl Millet	Demonstration of Bio-fortified VPMV-9 variety of Bajra crop & value addition	VPMV-9	Varietal demonstration & value addition	10	4	14.50	10.29	40.95	15332	40238	24906	2.62	14663	28291	13628	1.93
Red Onion	Demonstration on Onion Seed production enterprise	Bhima Super	Rainfed (Bulb Production)	3	1.2	52.75	43.50	19.07	25270	116531	91261	3.43	23600	80904	57304	4.6
Chilli	EDP on Byadgi chilli seed production enterprise	Krishna Prabha Rudra	Rainfed	2	0.8	6.25	5.13	21.95	53275	262500	209225	4.93	51000	215250	164250	4.24

** BCR= GROSS RETURN/GROSS COST
H – Highest Yield, L – Lowest Yield A – Average Yield

Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/diseases etc.)

1) 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	2.47	8.13
Plant height (cm)	312.6	214.3

2) Demonstration of Bio-fortified VPMV-9 variety of Bajra crop

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo (VPMV-9)**	**Check (Haalu Sajje)**
Ear head Length (cm)	24.50	16.25
No. of ear head / plant	9	4
Test weight (g)	14.25	11.5

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Bulb weight (gms)	114.20	101.56
Thrips incidence (No.s/ plant)	0.46	1.50

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 ICM in Red onion variety Bheema Super	Bheema Super • Bulb weight and quality are 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 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 Byadgi Chilli	• Pure seeds of Byadagi Dabbi were supplied to farmers and 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 with dark red coloured fruits • Timely management of Fruit rot resulted in better fruit yield and quality	-

5. B2. Data on IFS demonstrations including KVK farm demo model

Name of the IFS technology demonstrated	Name of IFS Components				Total Area (ha)	IFS Yield (q/ha)				Check yield (Mono crop)	% Increase over check	Economics of IFS demonstration (Rs./ha)			Economics of check demonstration (Rs./ha)		
	1	2	3	4		Component wise (Mention name of component and yield parameter)						Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
						1	2	3	4								

Feedback on IFS technologies demonstrated

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

5.B.3. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Major parameters		% Increase	*Economics of demonstration Rs./unit)			*Economics of check (Rs./unit)		
						Demo	Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Dairy	Demonstration on Fodder Production& feeding to cows for higher milk productivity	CB Cows	10	10	Milk yield / Cow / Lactation	Results awaited								

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Major parameters		% Increase	*Economics of demonstration Rs./unit)			*Economics of check (Rs./unit)		
						Demo	Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Poultry														
Rabbitry														
Pigerry														
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**
	•	

5. B4. Feedback on livestock technologies demonstrated

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

5.B.5. Fisheries : NIL

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m^2)	Name of the pararmeter with unit	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)			*Economics of check Rs./unit) or (Rs./m2)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Common carps																
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.
** BCR= GROSS RETURN/GROSS COST
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

5.B.7. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Name of the parameter with unit	Major parameters		% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)		
						Demo	Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Oyster mushroom														
Button mushroom														
Vermicompost														
Sericulture														
Apiculture														
Others (pl. specify)														
Nutrition & Health					•									
Post Harvest Technology														

Data on additional parameters other than yield :

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**

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
	•	•

5.B.9. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Man days		% save	Savings in labour (Rs./ha)	*Economics ofdemonstration (Rs./ha)			*Economics of check (Rs./ha)		
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Tractor Operated Compartmental Bund Former	55000	Demonstration of Tractor Operated Compartmental Bund Former	20	8	Compartmental Bunding	0.18	1.62	88.89	335	63384	39624	2.78	55208	33858	2.58
Solar Nipping Machine	10500	Demonstration of Solar nipping machine in Bengalgram	10	4	Nipping	2.08	8.33	75.03	2501	66109	43569	2.93	59242	36702	2.42
Demonstration of Tractor operated Groundnut Digger cum Elevator	80000	Demonstration of Tractor operated Groundnut Digger cum Elevator	10	4	Harvesting of groundnut pods	1.8	8	77.50	2300	-	-	-	-	-	-
Engine Operated Rotary Weeder	18000	Demonstration of Engine operated Rotary weeder	20	8	Weeding	3.50	14	75.00	3650	-	-	-	-	-	-
Tractor Operated Muclher	255000	Demonstration of Tractor Operated Mulcher	10	4	Crop residue mulching	0.18	-	-	-	-	-	-	-	-	-

* 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 labour saved (viz., reduction in drudgery, time etc.)

i. Demonstration of Tractor Operated Compartmental Bund Former for in-situ Moisture Conservation

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Average Soil Moisture content (% d.b)	27.67	22.25
Area coverage (ha/h)	0.71	0.10

ii. Demonstration of Solar nipping machine in Bengalgram

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Number of pods per plant	47	35
Number of branches per plant	17	14
Area coverage (ha/h)	0.05	0.02

iii. Demonstration of Tractor operated Groundnut Digger cum Elevator

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Area coverage (ha/h)	0.36	0.05
Saving in Time of operation (%)	86.11	-
Digging efficiency (%)	95.34	99.30
Pod damage (%)	0.65	0.18

iv. Demonstration of Engine Operated Rotary Weeder

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Area coverage (ha/h)	0.036	0.01
Weeding efficiency (%)	82.35	94.85
Saving in Time of operation (%)	72.23	-

v. Demonstration of Tractor Operated Mulcher for Effective Crop Residue Management

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Area coverage (ha/h)	0.70	0.47
Shredding efficiency (%)	84.16	56.90

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
Tractor Operated Groundnut Digger cum Elevator	• The equipment performs uprooting, elevating and windrowing of groundnut plants • It can reduce the drudgery of operation involved in manual uprooting and collection of plants in traditional method • Requires periodic clearing of entangled plants while in operation • Works better in sandy/red soil under irrigated conditions	• It requires a skilled tractor operator for efficient operation • Since the equipment is specific to single operation and single crop, the cost of equipment is on higher side.
Tractor operated compartmental bund former	• Compartmental Bunding helps in conservation of soil moisture for enhancing yield of rabi crops. • Can be used for rain water harvesting during kharif and rabi seasons. • Does not form the bunds with stable grade and bunds are likely to collapse during heavy rains. • More effective in deep black soils	• Lack of awareness in farmers about benefits of in-situ moisture conservation technologies. • Tractor operated compartmental bund former is single operation equipment. Hence it results in additional to cost of operation.
Solar nipping machine	• Solar nipping machine works effectively for nipping of chickpea. • There is no need of special skills to operate this machine • There is no provision for adjustment of height of nipping tool	• Lack of interest and awareness regarding nipping operation in chickpea
Engine Operated Weeder	• Suitable for small and marginal farmers • Can be used for multiple field crops • Can only cover one row for weeding • Requires periodical maintenance of engine parts • No provision to adjust wheel spacing according to row spacing of different crops • Noisy and high levels of vibrations during operation	• Lack of interest in purchase of equipment owing to fuel (petrol) cost
Tractor Operated Mulcher	• Performs shredding of crop residues and helps in early decomposition of crop residues • Avoids unscientific burning of crop residues • Suitable for shredding of field crop residues viz., Maize, Dry chilli and Cotton • Improves soil health by maintaining residue cover • High cost of purchase • High maintenance cost and repeated breakdown issues were observed	• Lack of interest to purchase the equipment since it is single operation machinery • Lack of awareness on advantages of shredding and mulching of crop residues

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	12	2034	-
2	Farmers Training	26	793	-
3	Media coverage	12	-	-
4	Training for extension functionaries	9	402	-
5	Others (Please specify)			

3. C. Women and children empowerment programme conducted

Category	Name of the programme	No of programmes	No of Participants
Women	Awareness programmes	10	820
	Coconut tree climbing	-	-
	Drudgery Reduction	8	252
	Enterprises	4	168
	Farming System	5	185
	Health and nutrition	4	135
	Kitchen Garden	-	-
	Nutrigarden	9	360
	Storage Technique	2	85
	Value addition	3	95
	Women Empowerment	2	65
	Others		
	Total	**47**	**2165**
Children	Health	6	325
	Others		
	Total	**6**	**325**
Grand Total		**53**	**2490**

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

6.1 Demonstration details on crop hybrids

Crop name	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
				Demo	Check		COC	Gross Return	Net Return	** BCR	COC	Gross Return	Net Return	** BCR
Total														

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

6.2 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. CAPACITY DEVELOPMENT

7.A. Capacity development of Farmers and Farm Women (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	11	2	13	21	5	26	32	7	39
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	33	770	421	1191	170	129	299	940	550	1490
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Natural Farming	3	53	60	113	12	0	12	65	60	125
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)										
Bio-rationals in pest and disease management										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Plant propagation techniques										
Others (pl.specify)										
Integrated Horticulture System										
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	3	74	0	74	30	0	30	104	0	104
Processing and value addition										
Others (pl.specify)										
Strategies for management of physiological disorders in coconut palms										
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										
Integrated water management	4	101	32	133	24	12	36	125	44	169
Integrated nutrient management										
Production and use of										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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)										
Large and small scale livestock entrepreneur	2	40	11	51	25	5	30	65	16	81
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	12	20	32	8	4	12	20	24	44
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment	6	16	123	139	8	33	41	24	156	180
Location specific drudgery reduction										
Rural Crafts										
Women and child care										
Others (pl.specify)										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
EDP for women										
Personal hygeiene, nutrition & pipe composting										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems	4	131	24	155	14	8	22	145	32	177
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										
Others (pl.specify)										
Mechanisation in straw management										
Energy efficient pumps and water conservation										
Plant Protection										
Integrated Pest Management										
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										
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Others (pl. specify)										
Farmers' Producer Organisation										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**57**	**1107**	**661**	**1901**	**288**	**184**	**508**	**1520**	**889**	**2409**

7.B Capacity development of Farmers and Farm Women (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	10	244	76	320	89	66	155	333	142	475
Soil and Water Conservation	2	85	0	85	9	0	9	94	0	94
Integrated Nutrient Management	1	12	0	12	5	4	9	17	4	21
Production of organic inputs										
Others (pl.specify)										
Natural farming	1	18	13	31	5	7	12	23	20	43
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	3	55	18	73	42	11	53	97	29	126
Off-season vegetables										
Nursery raising	1	15	2	17	8	25	33	23	27	50
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										
Plant Protection										
INM in vegetable crops										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards	1	42	12	54	30	6	36	72	18	90

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Rejuvenation of old orchards										
Export potential fruits	1	22	12	34	11	0	11	33	12	45
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)										
Plant protection measures										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	1	12	0	12	8	0	8	20	0	20
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	1	0	0	0	14	1	15	14	1	15
Integrated nutrient management										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	1	20	2	22	2	3	5	22	5	27
Others (pl.specify)										
Water conservation techniques	1	31	16	47	5	0	5	36	16	52
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 nutrition gardening	8	173	102	275	20	38	58	193	140	333
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	2	20	38	58	4	11	15	24	49	73
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1	4	18	22	1	3	4	5	21	26
Value addition	4	78	74	152	23	34	57	101	108	209
Women empowerment	1	2	22	24	0	0	0	2	22	24
Location specific drudgery production	1	13	0	13	3	0	3	16	0	16
Rural Crafts										
Women and child care										
Others (pl.specify)										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
EDP for women										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems	8	89	15	104	108	20	128	197	35	232
Use of Plastics in farming practices	4	79	38	117	17	19	36	96	57	153
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)	4	60	20	80	18	22	40	78	42	120
Operation of solar nipping machine										
Conservation in agriculture practices										
Plant Protection										
Integrated Pest Management										
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Fish processing and value 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										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**54**	**1061**	**444**	**1552**	**405**	**269**	**692**	**1496**	**748**	**2244**

7.C. Capacity development of Rural Youths (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
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										
Rural Crafts										
Production of quality animal products										
Dairying	4	96	9	105	11	0	11	107	9	116
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	17	1	18	7	6	13	24	7	31
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Capacity building	1	14	21	35	0	0	0	14	21	35
Livestock feed and fodder production	1	38	3	41	0	0	0	38	3	41
TOTAL	**7**	**165**	**34**	**199**	**18**	**6**	**24**	**183**	**40**	**223**

7.D. Capacity development of Rural Youths (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
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										
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)										
Papad preparation	4	0	140	140	15	17	32	15	157	172
TOTAL	**4**	**0**	**140**	**140**	**15**	**17**	**32**	**15**	**157**	**172**

7.E. Capacity Development programs for Extension Personnel (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	5	117	38	155	22	15	37	139	53	192
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	1	35	5	40	5	5	10	40	10	50
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	1	35	8	43	0	0	0	35	8	43
Household food security										
Any other (pl.specify)										
Value addition	1	30	12	42	4	2	6	34	14	48
Natural farming	1	2	27	29	0	2	2	2	29	31
Processing	1	30	13	43	4	4	8	34	17	51
Total	**10**	**249**	**103**	**352**	**35**	**28**	**63**	**284**	**131**	**415**

7.F. Capacity Development programs for Extension Personnel (off campus) : NIL

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	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	1	0	39	39	0	35	74	0	74	74
Any other (pl.specify)										
Entrepreneurship development										
Women empowerment										
Total	**1**	**0**	**39**	**39**	**0**	**35**	**74**	**0**	**74**	**74**

7.G. Sponsored training programmes conducted

S. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	36	916	405	1321	184	163	347	1100	568	1668
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants	1	22	12	34	11	0	11	33	12	45
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	4	101	32	133	24	12	36	125	44	169
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
	Training and pruning of orchards										
	Bio-rationals in horticulture crops										
	Soil and water testing										
7	**Post harvest technology and value addition**	3	60	20	80	18	22	40	78	42	120
7.a.	Processing and value addition	5	130	39	169	24	26	50	154	65	219
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
	Operation and maintenance of MIS	3	103	23	126	14	8	22	117	31	148
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
	Scientific dairy management	3	71	4	75	11	0	11	82	4	86
	Poultry management	1	17	1	18	7	6	13	24	7	31
	Micro & small livestock entrepreneur	2	40	11	51	25	5	30	65	16	81
	Feed and fodder production	3	98	16	114	0	0	0	98	16	114
11.	**Home Science**										
11.a.	Household nutritional security	1	0	16	16	0	7	7	0	23	23
11.b.	Economic empowerment of women	4	16	87	103	8	12	20	24	99	123
11.c.	Drudgery reduction of women										

S. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
11.d.	Others (pl.specify)										
	Processing and cooking	3	0	140	140	15	17	32	15	157	172
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics	2	49	26	75	5	5	10	54	31	85
12.b.	Others (pl.specify)										
	Introduction of new commercial crops like Cocoa, pepper & coffee to Gadag district	2	74	0	74	30	0	30	104	0	104
	Natural farming	1	0	30	30	0	0	0	0	30	30
	Total	**74**	**1697**	**862**	**2559**	**376**	**283**	**659**	**2073**	**1145**	**3218**

Details of sponsoring agencies involved

i) Dept of Animal Husbandry and Veterinary Sciences
ii) KSDA ATMA, Gadag
iii) PCRA
iv) SBI-ASF RSETI, Hulkoti
v) SCSP
vi) SKDRDP
vii) Department of health and family welfare
viii) Zilla Panchayat
ix) KSRLPS
x) MANAGE, Hyderabad
xi) UAS, Dharwad
xii) NAARM, Hyderabad
xiii) KREDL, Bengaluru
xiv) DCR, Puttur
xv) CEAH, Bengaluru
xvi) Selco foundation
xvii) Central Ground Water Board
xviii) National Mission on Edible Oils (NMEO)
xix) Nation Mission on Natural Farming (NMNF)
xx) MGRDPR University
xxi) Veterinary College
xxii) University of Horticultural Sciences, Bagalkot

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

Sl. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	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)										
	Integrated Nutrient Management										
	Nursery management in horticulture crops										
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
	Post harvest technology										
3.	**Livestock and fisheries**										
3.a.	Dairy farming	4	96	9	105	11	0	11	107	9	116
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming	1	17	1	18	7	6	13	24	7	31
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
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.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
	Papad preaparation	1	0	140		15	17		15	157	0
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics	1	14	21		0	0		14	21	0
5.b.	Others (pl.specify)										
	ICT in agriculture										
	Grand Total	**7**	**127**	**171**	**123**	**33**	**23**	**24**	**160**	**194**	**147**

i. Short Term Training (STT) : NIL

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants	No. of Participants									Date of Assessment	No of Participants passed assessment
					General			SC/ST			Grand Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1															

ii. Recognition of Prior Learning (RPL) : NIL

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants	No. of Participants									Date of Assessment	No of Participants passed assessment
					General			SC/ST			Grand Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1															

PART VIII – EXTENSION ACTIVITIES

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	838	387	1225	272	237	509	24	16	40
Kisan Mela	1	13	12	25	75	27	102	3	0	3
Kisan Ghosthi										
Exhibition	3	8727	5399	14126	66	41	107	54	36	90
Film Show	25	420	80	500	80	22	102	22	11	33
Method Demonstrations	18	256	101	357	186	36	222	5	13	18
Farmers Seminar	1	80	5	85	40	27	67	8	3	11
Workshop										
Group meetings	2	36	6	42	20	0	20	6	2	8
Lectures delivered as resource persons	15	1035	1117	2152	372	383	755	61	67	128
Advisory Services	78	78	10	88	0	0	0	1	0	1
Scientific visit to farmers field	75	582	30	612	6	0	6	11	7	18
Farmers visit to KVK	97	247	115	362	2	0	2	5	4	9
Diagnostic visits	9	59	8	67	2	3	5	34	5	39
Exposure visits	7	193	90	283	1	0	1	0	0	0
Soil health Camp	1	128	0	128	35	0	35	9	0	9
Animal Health Camp	1	0	0	0	58	14	72	11	0	11
Soil test campaigns										
Celebration of important days (specify)										
World food day	1	48	52	100	9	13	22	10	5	15
World soil day	1	53	64	117	8	9	17	7	1	8
Kisan Diwas	1	105	20	125	0	0	0	10	5	15
Mahila Kisan Diwas	1	2	31	33	0	5	5	3	3	6
World water day	1	3	0	3	67	4	71	2	1	3
Vigilance awareness week	1	124	65	189	27	16	43	49	39	88

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Special day celebrations										
150 years of Vande Mataram	1	25	30	55	0	0	0	12	5	17
PM Kisan Samman Nidhi	4	226	234	460	7	8	15	10	8	18
SwachhataPakhawada& Special campaign 4.0	15	220	164	384	63	26	89	98	24	122
Swachhata hi sewa	19	110	83	193	42	31	73	52	53	105
Jan Jatiya Gourav Diwas	1	12	10	22	43	32	75	5	3	8
Total	**391**	**13620**	**8113**	**21733**	**1481**	**934**	**2415**	**512**	**311**	**823**

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	6
2	Newspaper coverage	22
3	Extension Literature	4
4	Radio Talks	220
5	TV Talks	-
6	CD/DVD/Video clips	4
7	Animal health camps (no. of animal treated)	1(72)
8	Others, please specify	-
	Total	**255**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

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	0.84	12600	28
		M 35-1	0.09	1350	3
	Wheat	UAS-334	9.0	90000	15
		UAS-375	5.0	50000	20
	Foxtailmillet	HN-46	0.6	9000	20
	Pearlmillet	VPMV-9	0.4	6000	20
Oilseeds	Safflower	ISF-764	22.48	261240	151
		A-2020	3.28	39360	22
		DASF-1	2.69	32280	18
Pulses	Bengalgram	JAKI-9218	1.5	18000	6
	Bengalgram	Phule Vikram	1.5	18000	6
	Bengalgram	NBeG-776	1.5	18000	6
	Bengalgram	BGD.111-1	9.0	108000	36
	Greengram	DGGV-2	3.15	63000	63
		DGGV-1	0.15	3000	3
		BGS-9	0.15	3000	3
	Redgram	TS-3R	1.020	21000	40
	Soyabean	Dsb-34	1.25	25000	5
	Cowpea		0.05	600	2
Commercial crops					
Vegetables	Onion	Bhima super	3.18	576400	134
		Arka kalyan	0.9	162000	28
		K-883	0.16	40200	16
	Drumstick	Bhagya	0.01	1800	4
Flower crops					
Spices	Ajwain	AA-1	0.05	2500	5
		AA-73	0.05	2500	5
Fodder crop seeds	Sorghum Multi-cut	COFS-31	16.0 Kg	12800	10
	Fodder Cowpea	EC-4216	5.0 Kg	600	5
	Stylo haemata		1.5 Kg	600	4
	Stylo scabra		1.5 Kg	600	4
	Lucerne		2.0 Kg	1600	3
	Sesbenia grandiflora		1.2 Kg		3
	Fodder Oats		80.0 Kg	8000	5
Fiber crops					
Forest Species					
Others (specify)					
Total			**69.14**	**1584030**	**693**

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					
Fruits	Lime	Khagzi	500	100000	10
Ornamental plants					
Medicinal and Aromatic					
Plantation					
Spices					
Tuber					
Fodder crop saplings	Guiniea grass		3000	3000	10
	Congo signal		2500	2500	10
	Rhodes grass		5500	5500	10
	Super Napier		10820	21640	15
Forest Species					
Others(specify)					
Total			**22320**	**132640**	**55**

9.D. Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Vegetable seedlings	Chilli	Arka janvi	15000	15000	5
	Chilli	Arka yashasvi	15000	15000	5

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	Vermicompost	75 Qtl	75000	32
	Rhizobium	58. 0 kg	6960	58
	PSB	104.0 kg	12480	104
	Azospirillum	36.0 kg	4320	36
Bio-pesticide				
Bio-fungicide	Trichoderma	18.0 kg	3600	18
Bio Agents	Earthworms	15.0 kg	4500	12
Others (specify)	Azolla	5.0 Kg	500	7
Total		**7736 Kgs**	**107360**	**267**

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 lamb		07	69000	7
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		**07**	**69000**	**7**

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

10. A. Literature Published

(i) Summary of Literature published

Item	Number
No. of papers in journals having NAAS Score < 6	1
No. of papers in journals having NAAS Score > 6	
No. of Technical reports	
No. of Technical bulletins	4
No. of Popular articles - English	
No. of Popular articles – Local language	3
No. of Extension literature	24

(ii) Details of Literature published (provide details only on Research articles)

Please provide the details of publications (Research articles only) in the following format:

1. Research articles in journals: Complete citation indicating authors, year of publication, title of publication, journal name, volume and page number in sequence.

   Sudha V. Mankani, Vinayaka H. Niranjan, N. H. Bhandi & Hemavati R. Hiregoudar. (2025). Performance Evaluation of Solar Dryers for Drying of Red Chilli (*Capsicum annuum*). *Environment and Ecology*, 43(1): 49-56

10.B. Details of Electronic Media Produced

Sl. No.	Type of media	Title	Details
1	CD / DVD	VKSA	A brief video on the activities of ICAR-K.H.Patil Krishi Vigyan Kendra conducted during Viksit Krishi Sanakalp Abhiyan
		Millet Manchurian	A video on preparation of Manchurian with millets
		Bael fruit juice preparation	A video on preparation of juice from Bael fruit
		Cashew Seminar	A video on Cashew Seminar
2	Mobile Apps	-	-
3	Social media groups with KVK as Admin	WhatsApp – • KVK, HULKOTI, GADAG group • Cashew Growers group • Mango Growers group • GADAG FPOs • Nutri-Garden farmers • Dairy entrepreneurs : KVK • Chilli growers	3176 members
4	Facebook account name	KhpKvkHulkoti	551 followers
5	Instagram account name	KVKGadag	153 followers
6	Twitter Account	ICAR-KVK Gadag	102 followers
7	Youtube Account	K.H.Patil Krishi Vigyan Kendra Hulkoti	4830 subscribers

10.C. Success Stories / Case studies

i) SUCCESS STORY ON ARTIFICIAL BOREWELL RECHARGING UNITS

1) **Introduction:**

Gadag is a drought prone district that comes under the Northern dry zone -3 of Karnataka state. The district faces nearly 60-70% agricultural drought; coupled with erratic rainfall. This severely affects the crop yield and also reduce the ground water table and availability of water for protective irrigation. Hence to overcome this problem, borewell recharging units were established under the NICRA project in Mahalingapur village of Gadag block, Gadag district.

2) **Constraint identified:** The major constraint identified in the NICRA Village

- The early, mid and terminal agricultural droughts and long dry spells between two subsequent rains in Kharif and Rabi season leads to moisture stress and affect the productivity of major crops and income of the farmers.
- Due to lack of borewell recharging units the underground water storage capacity was reduced and it resulted in very less rain water harvesting and hence, no much water available for protective irrigation in the village.
- Lack of crop diversification to minimize the risk of drought.

3) Detailed information about climate resilient technology:

i) Borewell recharging technology is very much suitable in rainfed area for addressing the scarcity of water. Following steps were involved in construction of borewell recharging unit. Around the borewell 10 ft. length, 8 ft. width and 10 ft. height pit is made

ii) One feet above the bottom, upto 60 cm height small holes (6mm) are made on the casing pipe and covered with nylon mesh

Filtration Unit

iii) Then, 2 ft. diameter cement rings are installed around the casing pipe

iv) Boulder and jelley are filled in the remaining space of filtration chamber. After completion of this filtration unit, water harvesting pond with size of 15 ft. length, 12 ft. width and 10 ft. height is made at 4 ft away from the filtration unit.

Water harvesting

Mr. Shekappa Takrappa Lamani is participant farmer for Natural Resource Management intervention of NICRA Project implemented by ICAR-KVK, Gadag. Mr.Lamani is a small farmer having 3.5 acres of dryland and cultivating Greengram and Maize under dryland. The income from the land was not sufficient and he used to migrate to Goa to earn his livelihood for his family of 6 members. During 2015-16, he dug a borewell in his field. But, the borewell did not yield water even after digging a depth of 360 feet. He consulted KVK Scientists for this problem. KVK Scientists visited his field and observed that lot of rain water was wasted from the catchment area on upper side of the borewell. During 2017-18 under NICRA project, KVK constructed recharging pit around the borewell and the rain water from 4 acres of catchment was diverted to borewell recharing pit. During 2018-19, the borewell got recharged and farmer started irrigation

of his 3.5 acre land. He started cultivating commercial crops like Maize in Kharif season and Groundnut in Rabi-Summer season. He adopted sprinkler irrigation system for efficient use of water.

4) **Yield /productivity and profitability from climate resilient interventions and farmers practice before and after NICRA:**

(i) Through adoption of borewell recharging pit, farmer was able to harvest rain water which otherwise would have been wasted.

(ii) The defunct borewell was recharged through the recharging technology and the farmers could irrigate crops in his 3.5 acres field adopting sprinkler irrigation system

The yield and income of the crops before and after NICRA are given in below Table.

Table: Crop wise yield before and after NICRA

Sl. No	Crop	Yield (Q/ha)	
		Before NICRA	After NICRA
1	Greengram	2.00	3.5
2	Groundnut	4.5	8.0
3	Rabi Sorghum	2.25	3.5
4	Maize	14.00	20.00

Conclusion :

The NICRA project implemented by KVK, Hulkoti in Mahalingapur village of Gadag block had brought smile in farming community as they were able to harvest more crop per drop of water. The adoption of borewell recharging unit and sprinkler irrigation system resulted in getting higher yield and income.

ii) Enhancing Livelihood through Food Processing Enterprise

Smt. Shamala Ellaraddi Karur 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 8 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 income. Accordingly she attended 3 days training at KVK during January, 2022 on preparation of chilli value added products, packing, labeling. licensing and marketing. KVK later facilitated her in FSSAI licensing and provided packaging materials, helped her in designing of labels and marketing. The products were neatly packed in standup pouches with attractive labels.

Brand : Pooja Home Products

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.)**
2022-23	Red Chilli powder	2.00	450	90000	250	50000	40000
	Masasla Chilli powder	0.25	600	15000	450	11250	3750
2023-24	Red Chilli powder	3.00	600	180000	500	150000	30000
	Masasla Chilli powder	0.50	600	30000	500	25000	5000
2024-25	Red Chilli powder	3.50	600	210000	400	140000	70000
	Masasla Chilli powder	0.60	600	36000	400	24000	12000
	Crisp Rotties (Bajra, Sorghum & Ragi)	100000	Rs.5 per roti	500000	Rs.3.5 per roti	350000	150000

She started marketing the chilli products through KVK sales outlet, local shops, off shoot marketing, exhibitions 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. Still then, she was not happy with the income she got. She wanted to add few more enterprises, so that she can take forward the business to higher heights.

Accordingly under PMFME, KSDA, Gadag, she took loan and purchased roti making machine and dough mixing machine and got subsidy of Rs.1.50 lakhs in 2024-25. From then onwards daily she prepares 200 to 500 roties depending upon seasons and earning Rs.10,000 to Rs.20,000 per month. She gave employment to two women who were helping in all her enterprises. With all these enterprises, she is earning net income of Rs.4.0 to Rs.5.0 lakhs per annum. Further, KVK Scientist suggested her to prepare Foxtail Millet roti as there is lot of demand. Her daughter and her husband were also supporting in production, packing & marketing of food and chilli products.

She happily says, becase of the enhanced income, she became able to construct a house and send her daughter to an Engineering course. She gives credit to KVK for all the technical support and hand holding by KVK Scientist In her entrepreneurship journey.

Dr. Venkatasubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru visit to Shamala Karur's Chilli production unit

Interaction with Dr. Thimmappa, Principal Scientist, ICAR-ATARI, Bengaluru

iii) The Trailblazer Builds a Versatile Machine to Address Labour Issues

Background

Mr. Suresh Malleshappa Kondikoppa, an innovative farmer is the resident of Narasapur village in Gadag Taluk. He cashed in on his talent of building innovative things out of mere scrap to envisage a highly productive machine that could address the ever-haunting labour issues during peak periods. Mr. Kondikoppa owns 12 acre of land, majorly under rainfed condition. He takes up seasonal field crops such as Greengram, Maize Bengalgram and Rabi Sorghum. Half a decade back, he incurred significant loss of Greengram crop due to non-availability of timely labour for intercultivation and spraying operations. This event evoked an innovative idea to build a robust machine that can not only tackle the labour issues but can also generate additional income.

Interventions

a. Process

Non availability of timely labour and high operational cost often lead to low net income. Decrease in number of draught animals in rural ecosystem is a major concern to carry out interculture operations in the standing crop. This technology gap could be bridged by developing low cost, compact agricultural machinery suitable for area specific cropping systems. The riding type prime mover with multi tool attachments developed by Mr. Suresh Kondikoppa involves a riding-type three-wheeler prime mover capable of performing secondary tillage, weeding and spraying operations. The vehicle is powered by a 9 HP diesel engine and provided with hitch system for attachment of tools. It can carry a spray tank of upto 50 litre capacity and provided with a horizontal spray boom covering a span of 5 metres.

Mr. Kondikoppa approached KVK, Gadag seeking help in further refinement of developed prototype. Suggestions provided by KVK scientists included developing anti-skid wheels for the existing machine to suit various soil conditions and reducing the overall weight of the equipment along with provision of differential unit to rear wheels for better maneuverability.

b. Technology

The core technology revolves around use of existing diesel engine and low cost, locally available mechanical components to develop the riding type prime mover. Dimensions of the prime mover with multi-tool attachment developed by Mr. Suresh Kondikoppa are, Overall length: 2.10 m, Overall width: 1.20 m, Overall height: 1.60 m.

The machine is powered by an IC engine of 9 HP power output with Diesel fuel. Various working tools such as Harrowing blade, Three-row weeding tool and Boom sprayer are used as attachments with a simple mechanical hitching system with a provision of three-stage adjustment for different field operations such as harrowing, weeding and spraying of agrochemicals. The observed fuel consumption of the machine are 0.8 to 2.5 l/ha for harrowing and weeding purpose whereas it is 0.3 to 0.6 l/ha for spraying purpose.

Output and outcome

- Multiple operations can be performed with single prime mover.
- The unit can be fabricated at local workshops with the help of skilled foreman.
- Most suitable for field operations in small and marginal farms.
- Dependency on labour and draught animals will be partially eliminated for field operations.
- Minimal skill required to operate.
- Reduced the cost of interculture operations by 40 - 45 % and resulted in saving in labour upto 70 - 85 % in various field crops.
- Saving in cost of operation was estimated to be Rs. 1200 to 1500 / ha as compared to manual operations.
- Farmer is in the process of getting a Design Patent Certificate from Indian Patents Office with the technical guidance of ICAR-KVK, Gadag.

Impact

a. Horizontal Spread

The innovation gained popularity quickly among farmers and enthusiastic rural youth across the state as well as from other states such as Telangana and Maharshtra, who visited Mr. Kondikoppa seeking assistance in fabrication of their own such units. The farmer has assisted in developing more than 10 such machines and guided in operationalization of machines. Till date, the farmer has used the machine to operate in more than 1200 ha for harrowing, weeding and spraying operations.

b. Economic gains

The farmer, besides using the machine at his own field, is also invited by other farmers in the neighboring villages for carrying out weeding and spraying operations at their fields. The developed machine has become a source of self-employment for the farmer as he is involved in custom hiring service in other farmers' fields during his leisure time. He charges a nominal price of Rs. 800 to 1000/ha for field operations which has mutual benefits for both the stakeholders. Mr. Suresh earns an additional income of Rs. 40,000 to 60,000 per year with the help of developed prime mover with multi-tool attachment.

Photos

	
View of Riding Type Prime Mover with Multi Tool Attachment	**Spraying operation with Riding Type Prime Mover with Multi Tool Attachment**

	
Farmer operating his Innovative Machine	**Interculture operation with Riding Type Prime Mover with Multi Tool Attachment**

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

Technology Pocket Diary

During Pre-Kharif Campaign Technology Pocket diary was provided to the farmers. The pocket booklet includes the technologies related to importance of soil testing, soil sampling, seed treatment, ICM in Kharif crops i.e Greengram, Maize, Onion, Chilli, Sunflower, Dryland horticulture, Nutri Garden Groundnut and millets. Information on nutritional importance of millets, Kisan Sarathi, Social media QR codes of KVK were also given to get the farmers registered.

Technology Pocket Diary was farmers' friendly, as it can be kept in a pocket and can be used by the farmers at any time. This diary was provided to 3000 farmers during Pre-Kharif Campaign. Dr. P.L.Patil, Vice Chancellor of UAS, Dharwad appreciated the efforts made by KVK, Hulkoti in disseminating the technologies to the farmers in the form of pocket diary

10.E. Give details of indigenous technical knowledge 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	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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
			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 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
2	Livestock	Feeding of handful of curry leaves to dairy animals / day for 10 days after AI 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.
3	Livestock	Washing of hoves of animals with lime water	For the treatment of foot and mouth disease	Lime has antiseptic 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	Turmeric powder mixed in ghee, heated and applied	For the healing of wound	Turmeric has got anti microbial properties.

10 F. Technology Week celebration:

Period of observing Technology Week: **From 23-01-2025 to 28-01-2025**

Total number of farmers visited : **9916**

Total number of agencies involved : **2**

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	2	121	Lectures organized on crop & dairy technologies
Exhibition	1	9520	Both crop and livestock technologies
Film show	1	360	Nutri Garden, Soil sampling, Machinaries etc.
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.)	6	3500	Crop technology& others

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Supply of Seed (q)	1	250	Improved varieties of field crops
Supply of Planting materials (No.)	1	500	Amla, Lime etc
Bio Product supply (Kg)	1	110	Earthworms
Bio Fertilizers (q)	1	90	PSB, Azotobacter etc.
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week		**14690**	

10 G. Recognition and Awards:

1. Eminent Engineer Award - 2025 from “The Institution of Engineers (India)” to Dr. Vinayak Niranjan, Scientist (Ag. Engineering), ICAR-KVK, Gadag

2. Third Best Poster Presentation Award for the research paper entitled “Performance Evaluation of UAV Sprayer in Comparison to Existing Spraying Equipment in Bt. Cotton Crop”at the National Conference on “Comprehensive Crop Management through Drone Technology in Agriculture” held at UAS, Dharwad during October 30-31, 2025.

3. State-level “Dr. R. Dwarakinath Best Extension Scientist Award” by the Alumni Association (Reg.), University of Agricultural Sciences, Bangalore, to Dr. Sudha V. Mankani, Senior Scientist and Head, ICAR-KVK, Gadag

4. Best Innovative Farmer Award - 2025 from ICAR-CRIDA, Hyderabad to Mr. Shekrappa Takrappa Lamani, one of the progressive farmers in Mahalingapur village of Gadag District developed by KVK.

5. Best poster presentation award to KVK on ‘Assessment of Okra Hybrids for higher productivity through On-Farm Trial (OFT) in Gadag District’ during Global Conference On Smart Horticulture for Prosperity and Nutritional Security (GCSH-2025)’ held at UHS, Bagalkot held from 12-14, February 2025

6. ‘Best KVK Scientist’ Award by UHS, Bagalkot to Mrs. Hemavati R.H., Scientist (Horticulture) on 12-02-2025

7. Soil Testing Laboratory of ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, Gadag district got accreditation by National Accreditation Board for Testing and Calibration Laboratories (NABL).

PART XI – SOIL AND WATER TEST

11.1 Activities of Soil and Water Testing Laboratory

A. Status of establishment of Lab **:**

1. Year of establishment : 2005-06
2. List of equipment's purchased with amount : 01.07.2005

Sl. No	Name of the Equipment	Qty.	Cost (Rs. in lakhs)	Status
	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 since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	12414	26779	418	
Water Samples	6251	6065	418	
Plant samples	153	153	145	
Manure samples	4	10	2	
Others (specify)				
Total	**18822**	**33006**	**418**	

C. Details of samples analyzed during the year 2025:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	591	586	149	
Water Samples	240	215	140	
Plant samples	15	15	6	
Manure samples	2	4	2	
Others (specify)				
Total	**848**	**820**	**157**	

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	Not Working (Under repair)

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

	During 2024	During 2025	Cumulative progress (Total)
Samples analyzed (No.)	175	100	2303
Farmers benefited (No.)	440	120	6426
Villages covered (No.)	4	4	47

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	01-01-2025 to 31-12-2025	145	466	491	466
Mobile Soil Testing Kit	01-01-2025 to 31-12-2025	4	120	100	120

11.4 World Soil Health Day celebration

Sl. 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	125	50	0	0	7	2

PART XII. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Nipping in Bengalgram	160	50	Rs.22,500/ha	Rs.29,800/ha
Feeding of Silage Fodder to CB Cows	130	24	Rs.15,066/ lactation/cow	Rs.19,576/ 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
Banana special (micronutrient mixture) application	60	90	Rs.348650/ha	Rs. 367300/ha

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

PROMOTION OF CASHEW CROP IN GADAG DISTRICT

INTRODUCTION

Gadag district in Karnataka, classified as a drought-prone region, receives an average annual rainfall of 632 mm. Spreading groundnut is the major crop cultivated in red soils during the Kharif season, occupying about 30,000 ha with an average productivity of only 6.7 q/ha. Unlike black soils, which support two crops annually, red soils fail to sustain even one good crop under moisture stress. In this context, ICAR-KVK, Gadag introduced cashew-based farming systems as an alternative enterprise in red soils of rainfed areas with the objective of ensuring livelihood security and enhancing farmers' income.

MAJOR PROBLEMS IDENTIFIED

1. **Low productivity and poor returns** in Kharif crops i.e Spreading groundnut
2. **Moisture stress and vulnerability to crop failures** – Erratic rainfall, prolonged dry spells and complete dependence on monsoon aggravate moisture stress, often leading to frequent crop failures in red soil areas.
3. **Lack of remunerative alternatives** – Absence of climate-resilient and profitable crop options has limited diversification opportunities and restricted livelihood security in rainfed red soil tracts.

KVK INTERVENTIONS

1. **Varietal evaluation:** Five cashew varieties were tested at KVK farm under the guidance of ICAR-CCARI, Goa for confirming adaptability.
2. **Area expansion:** In collaboration with Directorate of Cashewnut & Cocoa Development (DCCD), Cochin, KVK supplied quality cashew grafts (Vengurla-4) and financial support to farmers for area expansion of cashew in Gadag District
3. **Capacity Building Programmes**: KVK conducted 86 sensitization programmes (760 farmers), 52 training programmes (1425 farmers), 14 crop seminars (2380 farmers), 785 Farm advisories (1243 farmers), 88 exposure visits and study tours (1082 farmers) and training on cashew apple value addition in association with DCCD, Cochin and ICAR-DCR, Puttur.
4. **Front Line Demonstrations**: KVK conducted FLDs in 22.8 ha across 57 farmers. Provided quality grafts of improved varieties (Ullal-1, Vengurla-4, Bhaskar, Nethra hybrids) in association with ICAR-DCR, Puttur. Along with this, the technical guidance on orchard

management practices viz., soil and water conservation, Integrated nutrient management practices, Integrated pest and disease management practices were given to farmers

5. **Convergence strategies adopted**: KVK, Gadag promoted cashew cultivation through convergence with key partners, mainly DCCD (Cochin), ICAR–DCR (Puttur), Karnataka State Department of Horticulture, Reliance Foundation, Sujala Watershed Programme and Karnataka State Department of Agriculture (ATMA).
6. **Formation of Cashew Growers' Association:** KVK, Gadag facilitated the formation of a Cashew Growers' Association to bring cashew growing farmers under one umbrella. The technical and marketing support of KVK coupled with financial linkage of farmers to DCCD, Cochin, KSDH made paradigm shift of farmers for cashew cultivation in Gadag district.
7. **Forward linkages:** Every year KVK organizes Buyer–Sellers Meet. This facilitates the cashew growers to negotiate the price for their produce.
8. **Establishment of Cashew Processing Unit:** With technical guidance of KVK under RURBAN project, ZP, Gadag a cashew processing unit was set up at Hulkoti village in Gadag District enabling farmers to sell their produce and get their nuts processed locally. Capacity of the unit is 2 tons per day.

FEEDBACK OF THE TECHNOLOGY

- Farmers opined that Cashew crop was established well under drought-prone conditions where groundnut often failed.
- Cashew performed well under low soil moisture conditions, making it a low-risk crop that ensures stable and higher returns
- Buyers sellers meet helped farmers to get better price for their raw Cashewnut produced.
- Cashew processing unit established with technical guidance of KVK enabled farmers to earn better income through direct marketing and processing of raw nuts.
- Both farmers and the scientific community appreciated the adaptability and performance of cashew under Gadag's rainfed conditions.

➢ **SPREAD OF TECHNOLOGY**

- **Front Line Demonstrations:** From 2013-14, KVK Gadag has organised Front Line Demonstrations on crop diversification through introduction of Cashew crop as an alternative crop for field crops under dryland conditions in 22.8 ha area belonging to 57 farmers in the District.

➢ **Horizontal spread of the technology from 2015-16 to 2024-25**

The successful interventions of the KVK Gadag entered into policies of Karnataka State Department of Horticulture for financial support in establishing cashew orchard.

Further, In convergence with DCCD, Cochin, State Department of Horticulture and DCR, Puttur, KVK was able to extend the area under cashew crop in 661.77 ha benefitting 531 farmers in the District.

As a result of technical intervention by KVK Gadag, adoption of Cashew crop has gathered rapid pace in the District and provided an alternative income source in dryland.

- **Economic performance of Cashew cultivation**

Sustained efforts of KVK during last decade have resulted in spread of Cashew in an area of 661.77 hectares in Gadag district out of which 30 per cent of the orchards are of 5-7 years old. Five year old Cashew plant yields about 4 kg raw Cashewnut under rainfed situation and fetches an average price of Rs.110 to Rs.130 per kg in the market. From 5 to 7 years old Cashew orchards, farmers are getting net income of Rs.65,000/ha to Rs.1,00,000/ha as compared to Rs.15,000/ha to Rs.25,000/ha from cultivation of field crops under rainfed situation. Notably these income levels are also achieved even during agricultural drought years.

Since 2021-22, KVK Gadag is organizing cashew raw nuts Buyer-Sellers Meet where farmers are informed through Social media handles about marketing of Cashew raw nuts. A total of 190 farmers participated in the meet and sold 964.10 q of raw cashew nuts worth of Rs.1.03 Crore per annum to the District economy. In near future, it may go up to Rs.1.80 Crore per annum.

Comprehensive interventions of KVK with convergence mechanism has paved the way forward for spread of Cashew area in Gadag District. There is significant impact of KVK activities on area expansion and farmers' income. Crop diversification through introduction of Cashew based farming system in red soil under rainfed situation has emerged as a profitable technology for addressing the productivity constraints in cultivation of field crops in Gadag district. There has been significant improvement in the livelihood of farmers owing to adoption of rainfed Cashew cultivation.

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

IMPACT ANALYSIS OF INTERVENTIONS IN SUMMER GROUNDNUT CROP

BACKGROUND

Nagavi village of Gadag Block was adopted by ICAR-KVK, Gadag for implementation of various programmes in major crops and enterprises in the village. Majority of the farmers belong to small and marginal land holding category and soil type varies from shallow to deep black and red sandy soils. More than 35 % farmers have irrigation facilities through borewells. Greengram, Maize, Safflower, Rabi Sorghum and

Bengalgram are the major field crops cultivated under rainfed conditions during kharif and rabi seasons. Bunchy Groundnut crop is predominantly grown during summer season under protective irrigated conditions, especially in shallow red soils. The PRA activities and group meetings with villagers revealed productivity constraints in summer groundnut due to use of low yielding varieties, imbalanced application of nutrients, pest and disease incidence, drudgery of farm operations and non availability of timely labour.

Based on the analysis of problems, ICAR-KVK, Gadag undertaken interventions in summer groundnut during 2024-25 by implementing Front Line Demonstrations, Extension Activities, Capacity Building Programmes and Farm Advisory Services.

INTERVENTIONS

ICAR-KVK, Gadag has planned comprehensive interventions through implementation of Front Line Demonstration on INM practices, Cluster Front Line Demonstration in DH 256 variety of groundnut, Front Line Demonstration on Tractor Operated Groundnut Digger cum Elevator, Capacity Building Programmes on improved production technologies in Summer Groundnut crop and Farm Advisory Services during the year 2024-25. The problem oriented interventions undertaken by ICAR-KVK, Gadag are presented in Table 1.

Table 1. Interventions of KVK in Summer Groundnut

Sl. No	Problem identified	Name of the intervention	No. / Area (ha.)	No. of farmers
1	i. Imbalanced Nutrition ii. Low productivity of existing varieties iii. Pest and disease Incidence iv. Drudgery of operation in harvesting of groundnut pods	Front Line Demonstration on Integrated Nutrient Management	8	20
2		Cluster Front Line Demonstration under NMEO (OS)	50	125
3		Front Line Demonstration on Tractor Operated Groundnut Digger cum Elevator	4	10
4		Capacity Building Programmes	6	214
5		Farm Advisories	17	-
		Total	62	369

OUTPUT AND OUTCOME OF INTERVENTIONS

About 369 farmers were involved in various programmes on summer groundnut covering an area of 62 hectares. Major demonstration components were soil test based application of nutrients through INM practices, timely and appropriate plant protection measures and demonstration of mechanized groundnut pod harvesting.

The data presented in Table 2 reveals that there has been increased productivity of summer groundnut crop in demonstration fields compared to farmer's practice. Percentage increase in yield was 24.51 percent. Soil nutrient status was recorded before and after the demonstration and the soil nutrient status improved significantly as a result of integrated nutrient management practices.

Table-2: Outcome of FLD on Integrated Nutrient Management in Summer Groundnut

Sl. No	Technological Interventions	Area (ha)	No. of farmers	Yield (q/ha)		% increase
				Farmer's Practice	Demo	
1.	• Soil test based nutrient application • Seed treatment with Trichoderma @ 10 g/kg of seeds • Seed treatment with Rhizobium & PSB @ 4 ml/kg of seeds	8	20	12.93	16.10	24.51

Sl.	Technological Interventions	Area	No. of	Yield (q/ha)		%
	• Soil application of ZnSO4 & FeSO4 @ 25 kg/ha each • Application of Gypsum @ 500 kg/ha at 40 DAS					

Results of Cluster Front Line Demonstration on DH 256 variety of groundnut under NMEO (OS) during 2024-25 are presented in Table 3. It was observed from that the yield of demonstration plot increased by 31.08 percent compared to farmer's practice.

Table 3. Results of CFLD in Summer Groundnut

Sl. No	Technological Interventions	Area (ha)	No. of farmers	Yield (q/ha)		% increase in yield
				Farmer's Practice	Demo	
1.	• Demonstration of DH 256 variety • Soil application of ZnSO4 @ 25 kg/ha • Soil Application of FeSO4 @ 25 kg/ha • Application of Gypsum @ 5 q/ha at 25 to 40 DAS • Foliar spray of Propeconazole 25 EC, Acephate 50% + Imidachlroprid 5% WG for control of sucking pests • Water soluble 19:19:19 and Liquid micronutrient mixture for foliar nutrition • Foliar spray of Lambda cyhalothrin 5% EC, Hexaconazole 5% WP for control of leaf spot disease	50	125	13.35	17.50	31.08

Results of Front Line Demonstration of Tractor Operated Groundnut Digger cum Elevator are shown in Table 4. From the table, it is evident that there was a saving of Rs. 2300 /ha in cost of harvesting operation and it resulted in labour saving of 77.50 percent when compared to manual harvesting method.

Table 4. Outcomes of FLD on Tractor Operated Groundnut Digger cum Elevator

Sl. No	Technological Interventions	Area (ha)	No. of farmers	Cost of Operation (Rs./ha)		Saving in cost (Rs./ha)	Labour Requirement (Man days/ha)		Saving in labour (%)
				Farmer's Practice	Demo		Farmer's Practice	Demo	

Sl. No	Technological Interventions	Area (ha)	No. of farmers	Cost of Operation (Rs./ha)		Saving in cost (Rs./ha)	Labour Requirement (Man days/ha)		Saving in labour
1.	Demonstration of Tractor Operated Groundnut Digger cum Elevator	4	10	3200	900	2300	1.80	8	77.50

ECONOMICS OF DEMONSTRATION

Table 5 represents the economics of Front Line Demonstration on INM in Summer Groundnut crop and CFLD in DH 256 variety of Summer Groundnut.

It was observed from the data that summer groundnut growers who participated in the demonstration were immensely benefitted in terms of good Net Returns and better Benefit - Cost Ratio. Results of FLD on INM in Summer Groundnut resulted in Net Return of Rs.42,025/- per ha as against Rs.31,243/- per ha in farmer's practice. BC Ratio was 1.82 in demo plot compared to 1.71 in farmer's practice. Cluster Front Line Demonstration in Summer Groundnut not only helped in expansion of area under groundnut but also resulted in profitability of farmers. From Table 5, it can be inferred that demonstration plots gave a net return of Rs. 53,194/- per ha as against Rs. 33964/- per ha in farmer's practice, resulting in a BC ratio of 2.10 in demonstration when compared to 1.78 in Farmer's practice. The economic assessment gives a clear indication that the interventions of ICAR-KVK, Gadag in groundnut has made significant impact in terms of yield, net returns and BC ratio.

Table-5: Economics of Interventions of ICAR-KVK, Gadag

Sl. No	Activity	Demonstration (Rs./ha)				Local (Rs./ha)			
		Gross Cost	Gross Return	Net Return	BC Ratio	Gross Cost	Gross Return	Net Return	BC Ratio
1	FLD on INM in Summer Groundnut	51428	93453	42025	1.82	43723	74965	31243	1.71
2	CFLD in DH 256 variety of Summer Groundnut	48277	101471	53194	2.10	43449	77413	33964	1.78

CONCLUSION

Various activities conducted by ICAR-KVK, Gadag in Summer Groundnut crop were aimed at bringing about overall profitability to groundnut growers of Nagavi village. Front Line Demonstration on Integrated Nutrient Management in Summer Groundnut was implemented owing to imbalanced soil nutrient management. Cluster Front Line Demonstration on DH 256 variety was implemented under NMEO (OS) programme. In order to address the drudgery and labour issues in harvesting of groundnut pods, Front Line Demonstration of Groundnut Digger cum Eleveator was conducted. All the interventions of ICAR-KVK, Gadag yielded affirmative results and helped in prosperity of summer groundnut growers in the village. The feedbacks received from participating farmers also shown a positive impact.

Field Visit to FLD on INM in Summer Groundnut plot

Demonstration of Groundnut Digger cum Elevator

Field Visit to CFLD in Summer Groundnut plot

Off-campus Training Programme

Celebration of Field Day in Summer Groundnut crop

PART XIII - LINKAGES

13.A. Details of linkage with ATMA

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programs attended by KVK staff	No. of programs Organized by KVK	Other remarks (if any)
01	Meetings	Interactive meetings	8	3	

S. No.	Programme	Particulars	No. of programs attended by KVK staff	No. of programs Organized by KVK	Other remarks (if any)
02	Research projects	Assessment of Bengalgram varieties for higher productivity	-	3	
		Assessment of Safflower varieties for higher productivity	-	3	
03	Training programmes	Training for farmers	5	9	
04	Demonstrations	Demonstration of ICM Practices in UAS-334 Variety of Wheat for Higher Productivity	-	10	
		Demonstration of ICM practices in Phule Vikram variety of Bengalgram crop	-	10	
05	Kisan Mela	-	-	-	
06	Technology Week	-	-	1	
07	Exposure visit	-	-	--	
08	Exhibition				
09	Soil health camps	-	5	-	
10	Animal Health Campaigns	-	-	-	
11	Video Films	-	-	-	
12	Books	-	-	-	
13	Extension Literature	Folders	-	-	1
14	Pamphlets	-	-	-	-
15	Other Activities (Pl.specify)	-	-	-	-
	Selection of farmers for Awards	-	10	-	-

13B. List of special programmes undertaken by the KVK which have been financed by State Government/University/National Horticultural Mission/ RKVY/ National Fisheries Development Board/Other Agencies : NIL

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

13C. Kisan Mobile Advisory Services

Month	No. of Advisories	No. of Text messages sent		SMS/voice calls sent (No.)	Total SMS/ Voice calls sent (No.)	Farmers benefitted (No.)

			No. of voice messages sent	Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
January 25	5	5	-	1	0	3	1	0	0	5	11412
February 25	5	5	-	1	0	2	1	0	0	5	11412
March 25	6	6	-	1	1	4	1	0	0	6	11412
April 25	6	6	-	2	1	2	1	0	0	6	11412
May 25	8	8	-	2	0	2	0	0	0	8	11412
June 25	15	15	-	5	1	5	2	1	1	15	11412
July 25	12	12	-	4	2	4	1	1	0	12	11412
August 25	10	10	-	2	1	6	1	0	0	10	11412
September 25	9	9	-	2	1	4	1	1	0	9	12412
October 25	6	6	-	2	2	2	0	0	0	6	3546
November 25	13	13	-	3	1	8	1	0	0	13	3546
December 25	9	9	-	1	1	4	1	1	1	9	4286
Total	**104**	**104**	**0**	**26**	**11**	**46**	**11**	**4**	**2**	**104**	**115086**

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Green House	2007	250 Sq. ft.	Chilli- Arka janvi & Arka yashasvi	Seedlings	30000	12000	30000	

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rabi Jowar	19.10.25		0.4	SPV-2217	Seeds	2.0	1750	10000	Expected
Pulses									
Greengram	07.06.25	29.08.25	4.0	DGGV-2	Seeds	16.0	25000	112000	
Bengalgram	14.10.25		7.0	JAKI-9218, Phule vikram	Seeds	38.0	92000	209000	Expected
Oilseeds									
Fibers									
Spices & Plantation crops									
Cashew			0.80	Vengurla-4	Nuts	5.0	20000	50000	Expected
Coconut	2018		4.00	Deejay sampoorna	Tender Nuts		125000	65832	
Coconut +	2021		3.00	Kalpa			62000	-	Planted

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Custardapple				surya, Kalpa jyothi, COD					4 years back
Floriculture									
Fruits									
Tamarind			0.60	PKM-1 & DTS-1	Fruit	24.0	15000	120000	Expected
Amla			0.60	NA-7, Krishna	Fruit	4.20	-	10500	
Mango			0.80	Alphonso	Fruit	-	15000	50000	Expected
Tamarind + Mango + Amla	2021		8.0	DTS-1, Kesar, NA-7		-	20000	-	Planted 4 years back
Agroforestry	2020		0.8			-	4000	-	Planted 4 years back
Vegetables									
Others (specify)									

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

Sl.No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	75.00 Qtl	15000	30000	
2	Earthworms	0.15 Qtl	2500	4500	
3	Azolla	0.05 Qtl	200	500	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Buffaloes	Local	Milk	2427 lit	73000	109230	
2	Cow	Jersey	Milk	3361 lit	73000	117638	
3	Sheep	Nari Suvarna	Lamb	9 lamb	10000	27000	
3	Goat	Jamunapuri local cross	Kid	2 kid	3000	6000	

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)
January, 2025	106	20	-
February, 2025	30	2	-
March, 2025	25	3	-
April, 2025	22	4	-
May, 2025	24	2	-
June, 2025	35	1	-
July, 2025	115	13	-
August, 2025	85	3	-

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
September, 2025	98	16	-
October, 2025	31	4	-
November, 2025	123	8	-
December, 2025	46	2	-

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 details, staff information, KVK land information, KVK infrastructure, demo units, vehicle, office, lab, farm equipment & library)	Already maintained
11	HRD of KVK staff (i.e training/seminar/workshop attended by KVK staff)	Already maintained
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 messages sent	Already maintained
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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.		Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
				No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
850000	850000	Graded bund construction	5054.68 cm	5	1	0	130	11	326	3.8 ha
		Construction of waste weirs 1)1.52 feet crust length 2)1.83 feet crust length 3) 2.44 feet crust length 4) 2.74 feet crust length 5) 3.00 feet crust length	 5 Nos. 7 Nos. 4 Nos. 3 Nos. 3 Nos.							
		Farm pond	2 Nos.							
		Infiltration wells								

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.		Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
				No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
		a)Infiltration Well b)Common tank	9 Nos. 1 No.							
		Bore well recharge pit	1 No.							
		Sub surface dam	2 Nos.							
		Soak pits	147							
		Check dam	1							

(b) Micro-irrigation systems :

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.		Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
				No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
150000	150000	Drip irrigation system for Dry land Horticulture	5 Ha.	3	0	0	115	7	0	4Ha.

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY) :NIL

Sl. No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				Facilities created for organic source of manure	Name of Crops cultivated	Variety	Organic inputs applied including bio-agents and botanicals treatment	Yield q/ha)	Economics	
		Aval. N	Aval. P	Aval. K	OC %						Cost of cultivation (Rs/ha)	Net returns (Rs/ha)

15.2 District Agriculture Meteorological Unit (DAMU) : NIL

	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 programme organized : Nil

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 release	Production				No. of farmers benefited / Sold to no. of farmers	Quantity seed sold (q)
			Target (q)	Area (ha.)	Actual Production (q)	Category (FS/CS)		

15.5 CFLD on Oilseeds: (Completed CFLDs should provide data for all itemsof thetable andalso remaining whichever is available)

Season	Crop	Variety		Conducted		Demo Yield(Q/ha)			Check Yield (Q/ha)	Economics					
										Demo			Check		
		Demo	Check	Demos (No)	Area (ha)	Max	Min	Avg		Gross income	Net income	BCR	Gross income	Net income	BCR
Kharif	Sunflower	KBSH 78	Private Hybrid	50	20	9.68	6.98	9.12	7.36	38478	17330	1.82	29438	9552	1.48
Rabi	Sunflower	KBSH 78	Private Hybrid	125	50	Under Progress									
Summer	Groundut	DH 256	TMV-2	125	50	Under Progress									

15.6 CFLDs on Pulses: (Completed CFLDs should provide data for all items of thetable and also remaining whichever is available) : Nil

Season	Crop	Variety	Conducted	Demo Yield(Q/ha)	Check	Economics

		Demo	Check	Demos(No)	Area (ha)	Max	Min	Avg	Yield (Q/ha)	Demo			Check		
										Gross income	Net income	BCR	Gross income	Net income	BCR

15.7 Krishi Kalyan Abhiyan (Aspirational districts) : NIL

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

15.8 Micro-Irrigation

Type of Activity	Date(s) conducted	No. of farmers (General)			No. of farmers SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Training on micro Irrigation systems	14-05-2025 06-09-2025 21-04-2025 22-04-2025	132	38	170	6	3	9	2	1	3

15.9 Tribal Sub-Plan (TSP) :

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	ST Beneficiaries (No.)		
					Male	Female	Total
1	Training programmes		No				
	1.1	1-3 days	No	3	54	36	90
	1.2	4-10 days	No				
	1.3	2-4 weeks	No				
	1.4	More than 4 weeks	No				
2	OFTs		No	2	8	0	8
3	FLDs		No.	7	33	4	37
4	Extension activities		No.	40	295	186	481
	4.1	Awareness camps	No.	6	63	34	97
	4.2	Exposure visits/study tours		0	0	0	0
	4.3	Exhibitions					
	4.4	Seminars					
	4.5	Workshops					
	4.6	Group meetings		12	94	28	122
	4.7	Others specify					
		Advisories & Field visits		22	138	124	262
5	Input supply						
	5.1	Seeds (Field crops)	Quintal	0.406	31	4	35
	5.2	Seeds (High value crops, spices etc.)	Kg				
	5.3	Seeds (Root & Tuber crops)	Quintal				
	5.4	Nursery plants	No.	45250	14	1	15
	5.5	Cuttings, Slips, suckers etc.	No.				
	5.6	Mushroom spawns Packets (100 gm)	No.				
	5.7	Bio-fertilizers Packets (one kg)	No.	46	17	1	18
	5.8	Honeybee Colonies	No.				
	5.9	Animals -large					
		Cattle	No.				

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	ST Beneficiaries (No.)		
					Male	Female	Total
		Buffaloes	No.				
		Calves	No.				
	5.10	Animals-Small	No				
		Pig	No				
		Sheep					
		Goat	No				
	5.11	Poultry					
		Ducklings	No				
		Poultry Chicks	No				
		Fish fingerlings					
	5.12	Equipment					
		Small equipment's (up to Rs 2000)	No.				
		Medium equipment's/machinery (Rs 25000)	No.				
		Large equipment's /machinery (> Rs.25000)					
	5.13	Infrastructure	No				
		Civil work/ ponds etc.	No				
		Setting up Plant Nursery/seed farm/hatchery	No				
		Land development/Reclamation/ Conservation	Hectare				
	5.14	Fertilizers	Quintal				
		Major nutrients NPK					
		Secondary nutrients	Quintal				
		Micronutrients	Quintal	0.69	30	3	33
		FYM	Quintal				
		Vermicompost	Quintal				
		Soil amendments (Gypsum, lime etc.)	Quintal				
	5.15	Plant protection					
		Plant protection chemicals	Kg				
		Plant growth promoters	Kg				
	5.16	Animal Feed mixture	Quintal	55			
	5.17	Animal fodder	Quintal				
	5.18	Animal medicines provided to animals	No.	62			
	5.19	Any other (specify)	No				
		a) pheromone Traps					
		i) Helicoverpa armigera	Nos.	56	10	0	10
		b) Neem oil- Botanicals	lit	2.5	4	1	5
6	Services/Facilitation						
	6.1	Animal/plant Health Camps	No				
	6.2	Artificial insemination	No				
	6.3	Vaccination	No				
	6.4	Veterinary services (Hospitalization, on-site treatment etc.)	No				
	6.5	Testing samples of Soil, plant, water, feed fodder and livestock	No				
	6.6	Promotion of agri-entrepreneurship	No				
	6.7	Promotion of IFS, IOFS,	No				

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	ST Beneficiaries (No.)		
					Male	Female	Total
	6.8	Establishment of Natural Farming, Nutri-garden, kitchen garden, orchards etc.	No				
	6.9	Creation of market links of farm produces	no				
	6.10	Use of Institute facilities[Processing etc.}	Hours				
	6.11	Subsidies/Assistance (50% of project cost, Max. R s 100O beneficiary}	No				
7	Publication/distribution of Literature		No	35	26	9	35
8	Employment generation for livelihood Man-months		No.				
9	Fellowship, Stipends or, Scholarship		No				
10	Area oriented & Activity (Project addressing the problems of agri .Sector faced by the SC/STs and benefit directly, which is measurable and Identifiable)		Projects (No)				
11	Monitoring & Evaluation of DAPSC/ST(up to 3% budget)						
	11.1	Field visits	No.	12	174	42	216
	11.2	Field days	No.	1	54	14	68
12	Any others						
	12.1	Wild elephant repellent	No.				
	12.2	Khethi Rakshak 18-monkey repellent	No.				
	12.3	Goat mineral mixture	No.				
	12.4	Supplement-salt lich	No.				
	12.4	Success stories (one or two write-ups may be given below with photos)	No.				

Success stories write-up:

15.10 Progress report of SCSP (DAPSC)

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	SC Beneficiaries (No.)		
					Male	Female	Total
1	Training programmes		No				
	1.1	1-3 days	No	3	75	15	90
	1.2	4-10 days	No				
	1.3	2-4 weeks	No				
	1.4	More than 4 weeks	No				
2	OFTs		No	3 (15)	15	0	15
3	FLDs		No.	9 (165)	143	22	165
4	Extension activities		No.				
	4.1	Awareness camps	No.	5	113	17	130
	4.2	Exposure visits/study tours					
	4.3	Exhibitions					
	4.4	Seminars					
	4.5	Workshops					
	4.6	Group meetings	No.	6	109	0	109
	4.7	Others specify	No.				
5	Input supply						
	5.1	Seeds (Field crops)	Quintal	9.73	129	21	150

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	SC Beneficiaries (No.)		
					Male	Female	Total
	5.2	Seeds (High value crops, spices etc.)	Kg				
	5.3	Seeds (Root & Tuber crops)	Quintal				
	5.4	Nursery plants	No.	25	5	0	5
	5.5	Cuttings, Slips, suckers etc.	No.	1500	5	0	5
	5.6	Mushroom spawns Packets (100 gm)	No.				
	5.7	Bio-fertilizers Packets (one kg)	No.	137.5	143	22	165
	5.8	Honeybee Colonies	No.				
	5.9	Animals -large					
		Cattle	No.				
		Buffaloes	No.				
		Calves	No.				
	5.10	Animals-Small	No				
		Pig	No				
		Sheep					
		Goat	No				
	5.11	Poultry					
		Ducklings	No				
		Poultry Chicks	No				
		Fish fingerlings					
	5.12	Equipment					
		Small equipment's (up to Rs 2000)	No.				
		Medium equipment's/machinery (Rs 25000)	No.				
		Large equipment's /machinery (> Rs.25000)	No.	1	156	0	156
	5.13	Infrastructure	No				
		Civil work/ ponds etc.	No				
		Setting up Plant Nursery/seed farm/hatchery	No				
		Land development/Reclamation/Conservation	Hectare				
	5.14	Fertilizers					
		Major nutrients NPK	Quintal				
		Secondary nutrients	Quintal	9.85	104	21	125
		Micronutrients	Quintal	1.65	49	11	60
		FYM	Quintal				
		Vermicompost	Quintal				
		Soil amendments (Gypsum, lime etc.)	Quintal	80	32	8	40
	5.15	Plant protection					
		Plant protection chemicals	Kg	5.84	58	7	65
		Plant growth promoters	Kg				
	5.16	Animal Feed mixture	Quintal	5.25	27	8	35
	5.17	Animal fodder	Quintal				
	5.18	Animal medicines provided to animals	No.	62	51	9	60
	5.19	Any other (specify)	No				
6	Services/Facilitation						
	6.1	Animal/plant Health Camps	No				
	6.2	Artificial insemination	No				
	6.3	Vaccination	No				
	6.4	Veterinary services (Hospitalization, on-site treatment etc.)	No				
	6.5	Testing samples of Soil, plant, water, feed fodder and livestock	No				
	6.6	Promotion of agri-entrepreneurship	No				
	6.7	Promotion of IFS, IOFS,	No				
	6.8	Establishment of Natural Farming, Nutri-garden, kitchen garden, orchards etc.	No				

Sl No	Item/Activity		Units	Achievements (Activities/ Quantity)	SC Beneficiaries (No.)		
					Male	Female	Total
	6.9	Creation of market links of farm produces	no				
	6.10	Use of Institute facilities[Processing etc.}	Hours				
	6.11	Subsidies/Assistance (50% of project cost, Max. Rs 100O beneficiary}	No				
7	Publication/distribution of Literature		No	200	165	35	200
8	Employment generation for livelihood Man-months		No.				
9	Fellowship, Stipends or, Scholarship		No				
10	Area oriented & Activity (Project addressing the problems of agri .Sector faced by the SC/STs and benefit directly, which is measurable and Identifiable)		Projects (No)				
11	Monitoring & Evaluation of DAPSC/ST(up to 3% budget)						
	11.1	Field visits	No.	23	128	23	151
	11.2	Field days	No.	2	70	35	105
12	Any others						
	12.1	Wild elephant repellent	No.				
	12.2	Khethi Rakshak 18-monkey repellent	No.				
	12.3	Goat mineral mixture	No.	25	24	1	25
	12.4	Supplement-salt lich	No.				
	12.4	Success stories (one or two write-ups may be given below with photos)	No.				

Success stories write-up :

15.11 NARI : NIL

Activity	Achievement	
	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 : NIL (KVK Portal is not working since one year)

No. of	No. of	Filled Report on Package of Practices (Y/N)	Filled Profile Report (Y/N)

Events added by KVKs	Facilities added by KVKs	Crop	Livestock	Fisheries	Horticulture	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish

15.13 KSHAMTA : (Knowledge Systems and Homestead Agriculture Management in Tribal Areas) : **NIL**

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

15.14 Natural Farming

Sl No	Item/Activity	Units	Achievements (Activities / Quantity)	Farmers (No.)		
				Male	Female	Total
1	Training programmes	No.	4	90	79	169
2	Technology demonstrations/Method demonstrations (specify below name of technology/demonstration)					
	Preparation of Ghanajeevamrutha	No.	10	90	79	169
	Preparation of Neemastra	No.	10			
	Preparation of Brahmastra	No.	10			
	Preparation of Angnihastra	No.	8			
	Seed treatment with Beejamrutha	No.	4			
3	Extension programmes/services (specify below name of activity)					
	Field visits	No.	25	20	5	25
	Natural farming Guide (Book)	No.	1	10	50	60
	Extension folder	No.	1	248	52	300
	Radio talks	No.	10			
4	Critical inputs provided (specify below name of input)					
	Plastic barrels for preparation of natural farming inputs	No.				

15.15 Aspirational districts (Raichur, Yadgir and Wayanad) : NIL

Sl No	Item/Activity	Achievements (Activities/ Quantity)	Farmers (No.)		
			Male	Female	Total
1	Training programmes conducted for farmers				
2	Training programmes conducted for rural youth				
3	Training programmes conducted for farm women				
4	Sponsored/vocational training programmes conducted				
5	Technology demonstrations on pulse crops				
6	Technology demonstrations on oilseed crops				
7	Technology demonstrations other than pulse and oilseed crops				
8	Extension programmes				
9	EDP programmes conducted				

10	How many EDP units edtablished				
11	Input supply				
	Seeds				
	Planting materials				
	Bioproducts				
	Poultry chicks				
	Ducklings				
	Goat kids				
	Sheep kids				
	Piglings				
	FYM/Vermicompost				
	Others specify				
12	Services provided				
	Soil samples tested				
	Water samples tested				
	Plant samples tested				
	Mobile advisories				
	Vaccinations				
	Artificial Insemination				
	Others specify				

15.16 CFLDs on Oilseed Model Villages (Belagavi-II, Bidal, Bagalkote, Tumakuru-II, Chikkaballapura, Yadgir,)

Season	Crop	Variety		Conducted		Demo Yield(Q/ha)			Check Yield (Q/ha)	Economics					
										Demo			Check		
		Demo	Check	Demos (No)	Area (ha)	Max	Min	Avg		Gross income	Net income	BCR	Gross income	Net income	BCR

15.17 CFLDs on Pulses Model Villages (Belagavi-II, Kalaburagi-II, Mandya, Mysuru, Vijayapura-I)

Season	Crop	Variety		Conducted		Demo Yield(Q/ha)			Check Yield (Q/ha)	Economics					
										Demo			Check		
		Demo	Check	Demos (No)	Area (ha)	Max	Min	Avg		Gross income	Net income	BCR	Gross income	Net income	BCR

15.19. HRD

1	**No. of Subject Matter Specialists of KVKs attended any training programme**	**7**
2	**No. of other staff of KVKs attended any training programme**	**1**
3	**No. of staff of KVKs participated in any workshops/seminars/conferences/symposia**	**8**

15.20 Details of Drone technology demonstration

Crop Name	No. of Demos On Insecticide spray	Area covered under insecticide demos (area in ha)	No. of demos on weedicide spray	Area covered under weedicide demos (area in ha)	No. of demos on nutrient spray	Area covered under nutrient demos (area in ha)	No. of Demos On Nutrient spray	Area covered under nutrient demos (area in ha)

15.21 FPO

(A) Technological backstopping to FPOs other than formed as CBBOs

Total no. of FPOs in the district	Tech. backstopping provided to no. of FPOs	No. of training prog organized for FPOs	No. of FPO members trained	Major areas of training	Assistance to no. of FPOs in economic activities

(B) Formation and Promotion of FPOs as CBBOs

No. of blocks allocated	No. of FPOs registered	Average no of members per FPO	No. of FPO received Management cost	No. of FPO received Equity Grant	No. Of FPOs doing business

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

16.1 Farmers feedback on performance of crop varieties/hybrids

Sl. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
	Pearl millet – VPMV-9	• More number of tillers, bold seeds & length of earhead is more and is high yielding
	Foxtil millet – HN-46	• Higher yield, length of panicle is more and more number of tillers
	Soybean – DSb-34	• Less incidence of rust • More number of pods per plant
1	Greengram : DGG-1	• High yielding • Non shattering • Taller canopy

Sl. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
		• Suitable for mechanical harvesting
2	**Green Chilli**	• Arka Yashasvi : Fruits of Arka Yashasvi are long and thick and light green colour fetches less price compared to Arka Tanvi and local hybrids and it is tolerant to ChilLCV compared to Local variety. Arka Tanvi: Fruits of Arka Tanvi are long and thin with attractive dark green colour, less incidence of chiLCV and preferred in Gadag city market. Therefore farmers accepted Arka Tanvi Green Chilli Hybrid.
3	**Okra hybrids**	• Arka Nikita: High yielder, moderatelt tolerant to YVMV disease, fruits have demand in the market with good coocking quality
4	**Onion** • Bheema Super	• Bheema Super have good bulb weight with 19.07% increase in the yield. Bulbs are attractive with light pink colour fetches Rs.390/- more per quantal compared to local variety Ballary Red.
5	**Chilli** Rudra	• Pure seeds of Byadagi Dabbi (Rudra variety) supplied to farmers are very good, farmers saved the seeds for next season • More yield and tolerant to pest and disease incidence

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback
1	Seed treatment of Trichoderma in chilli	Helps to reduce Root rot disease
2	Seed treatment with Biofertilizers like Rhizobium, PSB & Azospirillum	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, more number of root nodules per plant
5	Foliar spray of Pulse magic	Increased pod setting and higher yield
6	Micro nutrient application (ZnSo4)	No deficiency symproms & higher yield
7	Adoption of border crop and trap crops in Byadagi Chilli	• Maize as border crop and Marigold as trap crop resulted in less incidence of sucking pest and fruit borer respectively
8	Use of Arka Vegetable Special at 40, 60 and 80 days after sowing in vegetables, Red Onion and Red	**Onion** • Application of Arka Vegetable Special helped to get large and dark pink coloured bulbs **Chilli**

Sl. No.	Agronomic practices	Farmer's feedback
	Chilli	• Application of Arka Vegetable Special (Micornutrient mixture) resulted in better flower and fruit set and dark red coloured fruits

16.3 Farmers feedback on performance of pest and disease management in crops

Sl. No.	Pest and disease management in crops	Farmer's feedback
1	Groundnut	Collar rot and Leaf spot 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 in Bengalgram	Low incidence of soil borne fungal diseases like wilt in Bengalgram
4	Seed treatment of *Trichoderma viride* and Imidachloprid in ByadagiChilli	Helped to reduce seedling rot and incidence of sucking pests at early vegetative growth stage
5	Seed treatment of *Trichoderma viride* in onion	Helped to reduce seedling rot disease in main field
6	Pest and disease management in Byadagichilli crop	Foliar spray of beauveria Timely management of anthracnose, Murda complex disease lead to get 20% additional yield compared to local practices

16.4 Farmers feedback on performance of farm machinery technologies

Sl. No.	Farm machinery technologies	Farmer's feedback
1	Tractor Operated Groundnut Digger cum Elevator	• The equipment performs uprooting, elevating and windrowing of groundnut plants • It can reduce the drudgery of operation involved in manual uprooting and collection of plants in traditional method Requires periodic clearing of entangled plants while in operation
2	Tractor Operated Compartmental Bund Former	• Compartmental bunding helps in conservation of soil moisture for getting higher yield. • Can be used for rain water harvesting during kharif and rabi seasons.
3	Solar Nipping Machine	• Solar nipping machine works effectively for nipping of chickpea. • There is no need of special skills to operate this machine
4	Engine Operated Weeder	• Suitable weeding equipment for small and marginal farmers • Resulted in reduction in labour requirement and cost of operation

Sl. No.	Farm machinery technologies	Farmer's feedback
		• Can be used for weeding in multiple field crops Requires periodical maintenance of engine parts

16.5 Farmers feedback on performance of livestock and fisheries technologies

Sl. 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 2024-25

S.No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	15478649	15478587	15478598
2	**Traveling allowances**	116000	116000	116000
3	**Contingencies**			
A	**Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)**	365000	365000	365000
B	**POL, repair of vehicles, tractor and equipments**	375000	375000	375000
C	**Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)**	21000	21000	21000
D	**Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)**	3000	3000	3000
E	**Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)**	280400	280400	280400
F	**On Farm Testing (on need based, location specific and newly generated information in the major production systems of the area)**	46600	46600	46600
G	**Integrated Farming System**	0	0	0
H	**Training of Extension Functionaries**	0	0	0
I	**Extension activities**	30000	30000	30000
J	**Farmers' Field School**	0	0	0
K	**EDP / Innovative activities**	0	0	0
L	**Maintenance of buildings**	20000	20000	20000
M	**Maintenance of Farm**	0	0	0
N	**Maintenance of Soil, Plant & Water Testing Laboratory and issue of Soil Health Cards**	0	0	0
O	**Nutri Garden**	15000	15000	15000

S.No.	Particulars	Sanctioned	Released	Expenditure
P	**Library Maintenance**	15500	15500	15500
Q	**SCSP Programme**	957000	957000	957000
R	**TSP Programme**	300000	300000	300000
TOTAL (A)		**18023149**	**18023087**	**18023098**
B. Non-Recurring Contingencies				
1	**Works**	0	0	0
2	**Equipments(Farm)**	300000	300000	300000
3	**Vehicle** (Four wheeler)	0	0	0
4	**SCSP Programme**	244000	244000	244000
TOTAL (B)		**544000**	**544000**	**544000**
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		**18567149**	**18567087**	**18567098**

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

Year	Opening balance as on 1st January	Income during the year	Expenditure during the year	Net balance in hand as on 31st December of each year
January to December 2023	4.86	16.04	16.37	4.53
January to December 2024	4.53	28.08	33.19	-0.58
January to December 2025	-0.58	28.83	44.93	-16.63