# **Annual Progress Report 2016-17**

# (FOR THE PERIOD FROM APRIL 2016 TO MARCH 2017)

#### **Submitted to:**

# **Director**

Indian Council of Agricultural Research
Agricultural Technology Application Research Institute (ATARI)
MRS, HA Farm Post, Hebbal
BANGALURU – 560 024

#### **Submitted by:**

# ICAR-TaralabaluKrishiVigyan Kendra, Davanagere

Kadalivana, LIC Colony Layout, B.I.E.T. Road

**Davanagere - 577 004** 

Phone: 08192-263462,

Email: kvk.Davanagere@icar.gov.in

Website: www.taralabalukvk.com

#### PART I - GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR- Krishi Vigyan Kendra	08192 – 263462	08192 – 260969	dvgtkvk@yahoo.com	www.taralabalukvk.com
Kadalivana, LIC Colony Layout,				
B.I.E.T. Road,				
Davanagere – 577 004				
Davanagere-Dist.				

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Taralabalu Rural Development	08194 – 268829,	08194 - 268847	dvgtkvk@yahoo.com	http://www.taralabalu.org
Foundation	268842			
Sirigere – 577541				
Chitradurga (Dist.)				

#### 1.3. Name of the Senior Scientist-Cum-Head with phone & mobile No

Name	Telephone / Contact					
	Residence	Mobile	Email			
Dr. Devaraja T.N.		094498 - 56876	tngdevaraja@gmail.com			

#### **1.4. Year of sanction:** 2004

# 1.5. Staff Position (as 31st March 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for SS&H, SMS and Prog. Asstt.)
1	2	3	4	5	6	7
1	Senior Scientist-Cum-Head	Dr. Devaraja T.N.	Senior Scientist-Cum-Head	M	Fisheries	Ph.D. (Aquatic Microbiology)
2	Subject Matter Specialist	Mr. Basavanagowda M.G	Subject Matter Specialist	M	Horticulture	M.Sc. (Hort.)
3	Subject Matter Specialist	Mr. Mallikarjuna B.O	Subject Matter Specialist	M	Agronomy	M.Sc. (Agri.)
4	Subject Matter Specialist	Dr. Jayadevappa G.K.	Subject Matter Specialist	M	Animal Science	M.V.Sc. (Animal Nutrition)
5	Subject Matter Specialist	Mr. Raghuraja J.	Subject Matter Specialist	M	Agricultural Extension	M.Sc. (Agri.)
6	Subject Matter Specialist	Mr. Prasanna Kumara N.	Subject Matter Specialist	M	Plant Protection (Pathology)	M.Sc. (Agri.)
7	Subject Matter Specialist	Mr. Sannagoudra H.M.	Subject Matter Specialist	M	Soil Science	M.Sc. (Agri.)
8	Programme Assistant (Lab Tech.)/T-4	Mr. Revanasiddappa G.B.P.	Programme Assistant (Lab Tech.)	M	Lab Technician	M.Sc. (Agri.)
9	Programme Assistant (Computer)/ T-4	Mr. Santhosh B.	Programme Assistant	M	Computer	B.Sc. (Computer Science)
10	Programme Assistant/ Farm Manager	Mr. Vijayakumar S.B.	Programme Assistant	M	Farm Manager	M.Sc. (Plant Breeding & genetics)
11	Assistant	Mr. Mallikarjuna S.Gudihindala	Assistant	M	Assistant	B.Com.
12	Stenographer	Mrs. Mamatha H. Melmalagi	Stenographer-III	F	Stenographer-III	B.Com. + Shorthand
13	Supporting staff	Mr. Shivakumara B.	Supporting staff	M	Office Attendant	S.S.L.C.
14	Supporting staff	Mr. Shivakumara S.E.	Supporting staff	M	Field Attendant	S.S.L.C.
15	Driver-Cum-Machanic	Mr. Marulasiddaiah N.M.	Driver-Cum-Machanic	M	Jeep Driver	BA
16	Driver-Cum-Machanic	Mr. Shivakumara S.	Driver-Cum-Machanic	M	Tractor Driver	S.S.L.C.

Name of the incumbent	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/Others)
3	8	9	10	11	12
Dr. Devaraja T.N.	37400-67000	48170/-	17-05-2005	Permanent	Others
Mr. Basavanagowda M.G.	15600-39100	23700/-	21-11-2006	Permanent	Others
Mr. Mallikarjuna B.O.	15600-39100	22020/-	09-01-2008	Permanent	Others
Dr. Jayadevappa G.K.	15600-39100	22020/-	29-01-2008	Permanent	Others
Mr. Raghuraja J.	15600-39100	21220/-	23-06-2008	Permanent	Others
Mr. Prasanna Kumara N.	15600-39100	20440/-	24-06-2008	Permanent	Others
Mr. Sannagoudra H.M.	15600-39100	17550/-	01-07-2013	Permanent	Others
Mr. Revanasiddappa G.B.P.	9300-34800	11010/-	11-04-2012	Permanent	Others
Mr. Santhosh B.	9300-34800	12930/-	05-09-2008	Permanent	Others
Mr. Vijayakumar S.B.	9300-34800	12430/-	23-06-2008	Permanent	Others
Mr. Mallikarjuna S.Gudihindala	9300-34800	16920/-	01-06-2005	Permanent	Others
Mrs. Mamatha H. Melmalagi	5200-20200	11100/-	27-06-2005	Permanent	Others
Mr. Shivakumara B.	5200-20200	8240/-	01-06-2005	Permanent	Others
Mr. Shivakumara S.E.	5200-20200	8240/-	01-06-2005	Permanent	Others
Mr. Marulasiddaiah N.M.	5200-20200	8670/	01-06-2005	Permanent	Others
Mr. Shivakumara S.	5200-20200	9360/-	01-06-2005	Permanent	Others

# **1.6.** Total land with KVK (in ha): 15 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.75
2.	Under Demonstration Units	0.50
3.	Under Crops	7.25
4.	Orchard/Agro-forestry	5.0
5.	Others	0.5
		15

# 1.7. Infrastructural Development:

#### A) Buildings

		Source			Stage				
S.	Name of building	of		Complete			Incomplete		
No.	Name of building	funding	Completion Date	letion Plinth area Expenditure (Rs.)		Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	04.01.2008	550	29.37			Completed	
2.	Farmers Hostel	ICAR	04.01.2008	300	18,82,000.00			Completed	
3	Plant Health Clinic	ICAR	01.04.2012		10,00,000.00			Completed	
4.	Staff Quarters	ICAR	04.01.2008	400	19,40,000.00			Completed	
	1. SMS (Animal Science)								
	2 . SMS (Agri. Extension)								
	3. Farm Manager								
	4. Stenographer								
	5. Office Assistant								
	6. Driver (Jeep)								
5.	<b>Demonstration Units</b>								
	1. Dairy with modern facilities	ICAR	04.01.2008	160	6,41,000.00			Completed	
	2. Shade Home	DBT	29.03.2013	1000	2,10,000.00			Completed	
	3. Azolla bulk production unit	RF	2010	3	3,000.00			Completed	
	4. Azolla production unit	NICRA	28.03.2013	3.53	20,000.00			Completed	
	5. Ornamental fish breeding unit	DBT	2010	700	1,49,955.00			Completed	
	6. Fish polyculture pond with horti integration	DBT	2010	600				Completed	
	7.Portable Carp hatchery	ICAR	31-03-2011		2,25,000-00			Completed	
	8.Fodder demo units	RF	2010	4000	41,428.00			Completed	
	9. Biogas unit	RF	2011	04	29920.00			Completed	
	10. Fish cum paddy cultivation unit	RF	2011	421	13071.00			Completed	
	11. Vermicomposting units	RF	2008	121	60000			Completed	
	12 .Vermicomposting unit	DBT	2010	60	15000			Completed	

6.	Orchards and agro forestry						Completed
	1. Mango	RF	2000	12000	53215.00		Completed
	2. Sapota orchard	RF	2010	4000	44775.00		Completed
	3. Hexagonal and penta planting of coconut garden, Germ plasm coconut	RF	2009	4000	9035.00		Completed
	4. Arecanut garden	RF	2007	8000	72228.00		Completed
	5.Tarmarind garden, Medicinal plants	RF	2000	2000			Completed
	6.Curry leaf garden	RF	2007	500			Completed
	7. Agro forestry with biofuel plants	RF	2000	24000	13166.00		Completed
7.	Fencing	ICAR	31-03-2011	930 feet	11,00,000		Completed
8.	Rain Water harvesting system					To be sanctioned	
9.	Threshing yard	ICAR	31-03-2011		2,00,000-00		Completed
10.	Farm Godown	ICAR				To be sanctioned	
11.	Bore wells (2 No.s)	ICAR	31-03-2011		3,00,000-00		Completed
12.	Irrigation system	ICAR	31-03-2011		1,00,000-00		Completed
13.	Borewell recharge unit	RF	01-06-2011		64,585-00		Completed

#### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run (upto 31-03-2016)	Present status
Tractor and Trailer	2005	4,99,995-00	3196 hours	Good
Power tiller Funded by FLD cotton	2008	99400-00		Good
Power Tiller	2010	131500-00		Good
Tempo Cruiser	2005	4,99,250-00	240404	Good
Hero Honda CD Deluxe	2006	39,298-00	66252	Good
Yamaha Alba	2009	48,309-00	50478	Good

# C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Mixer	2005	3,300/-	Good
Xerox Machine	2006	73,840/-	Good
Digital Camera	2006	19,900/-	Not in working condition
Over Head Projector	2006	19,935/-	Good
TV with DVD Player (Funded by SHIMUL)	2006	11,350/-	Good
Refrigerator (LG)	2007	10,000/-	Good
Deep Freezer + Stabilizer (Funded by ATMA)	2013	16,650/-	Good
Computer +LCD	2007	1,00,103/-	Good
Fax (4 in one)	2009	15,000/-	Good
Generator	2011	100000/-	Good
Sony Digital GPS Camera	2017	28,500/-	Good
Computer	2017	27,800/-	Good
UPS	2017	72,100/-	Good
Xerox Machine	2017	65,000/-	Good
LCD Projector	2017	32,100/-	Good
RO Water Purifier	2017	65,000/-	Good
Hard Disks (2 No.s)	2017	9,500/-	Good

# 1.8. Details SAC meeting conducted in 2016-17

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2017
1	2	3	4	5
3.1	28-12-2016	Group-I: To be addressed at KVK level		22-12-2017
		Promote apiculture as subsidiary Agriculture activity.		
		Develop suitable marketing avenues for baby corn.		
		Develop fertigation schedule for major horticulture crops.	On going	
		Cost of cultivation for major Horticulture and Agriculture crops to be prepared for		
		finalization of term sheet.		
		Promote marketing linkage for minor millets.		

Establish demonstration fish pond of 1000 sq feet at KVK.

Attract rural youth towards agriculture through ARYA programme.

Create awareness about afforestation

Give suitable technology for late sown Kharif crops.

Establish processing unit for millets at KVK

More seed production of cereals and pulses in the KVK demonstration plots.

Give more importance for seed production of Rashmi Blackgram and KKP-3 Green gram. To encourage poor quality feeding stuffs enrichement.

#### Group-II: To be addressed through action plan of KVK for the year 2017-18

Popularize foliar application of micronutrients in agriculture crops.

Propose varieties for Abiotic stress tolerance

Propose demonstrations of inter discipline subjects.

Promote pepper as intercrop in Arecanut garden.

Propose pulses as intercrops in Maize in future demonstration.

Take up more demonstration on pulses and legumes.

3

# Group-III: To be addressed through convergence with line Departments in Davanagare district

Utilize the resource of KVK in preparing the potential linked plan to be prepared by lead bank at district level.

KVK Scientists should be used as resource persons in Agriculture Extension Programmes conducted by all the banks in the district.

Promote stevia, a medicinal plant in all horticulture farms as well as KVK.

Conduct an awareness programme on importance of medicinal plants at KVK in collaboration with department of horticulture.

Capacity building of polyhouse growers in collaboration with horticulture department.

By utilizing schemes in horticulture department, establish a tomato processing unit for one of FPO's in Davanagere district.

Better and optimum utilization of AIR in dissemination of technologies.

Submit the proceedings of SAC meeting to Government for further action.

#### **PART II - DETAILS OF DISTRICT**

#### 2.1 Major farming systems/enterprises:

Sl. No	Farming system/enterprise					
1	Rainfed system: Maize, Maize+Redgram, Ragi, Ragi+Horsegram, Greengram-Ragi, Minor millets, Jowar, Bengalgram, Redgram,					
	Groundnut, Sunflower, Cotton, Mango.					
2	Irrigation (33%): Rice- Rice, Sugarcane, Arecanut, Banana, Coconut, Papaya, Vegetable crops, Fodder crops, Pomegranate					
3	Enterprises: Poultry, Dairy, Sheep/ Goat rearing, Fisheries, Vegetable nursery, Nursery					
4	Cropping intensity: 122%					

ICAR- Krishi Vigyan Kendra is situated in Davanagere district of Karnataka state. The district occupies a total geographical area of 5913.4 sq. km. It is spread over 6 taluks consisting 35 hoblies and 232 gram panchayaths. According to 2011 census, the district comprises total population is 19,46,905 with population density of 329 people /sq. km. The district is primarily agrarian in character and more than 75% of its population depending directly / indirectly on agriculture for their livelihood. Literacy rate in the district is 75.74% (2011 census).

Davanagere district is at center of the state and lies in between latitude of 750.30' and 760.30' and longitude of 130.45' and 140.50' with MSL of 602.5 m. The annual average rainfall of the district is 656.9 mm (Actual 463.8 mm 2016). The variety of soil is medium to deep black and red sandy loam (Details in section 2.2). The district is essentially Kharif region and majority Rabi crops will be taken up with the help of irrigation from lower Bhadra canal. (Irrigation -33%) The district comprises of three agro climatic zones of Karnataka as given in section 2.3.

# 2.2 Description of Agro-climatic Zone & major agro ecological situations:

Sl. No	Agro-climatic Zone	Characteristics			
1	Northern Dry Zone (Zone III)	The zone comprises Harapanahalli Tq. Major soil types of the zone are black and red soils. The main crops growing in			
		the zone are Ragi, Maize, Jowar, Onion, Chilli, Sunflower and Minner millets, Coconut, Mango and Pomegranate.			
2	Central Dry Zone (Zone IV)	Jagalur, Harihara and Davanagere Taluks come under Zone IV. We find red sandy soil mixed with clayey soil land			
		patches of black soil in the zone. Major crops include Maize, Rice, Jowar, Sunflower, Sugarcane, Ragi, Minor millets,			
		Vegetables, Coconut, Arecanut, Beetlevine, Groundnut, and Pomegranate.			
3	Southern transitional Zone	Southern transitional zone includes Channagiri and Honnali taluks. The dominating soil types found are red sandy soil			
	(Zone VII)	and black cotton soil. Major crops growing the zone are Maize, Rice, Ragi, Cotton, Chilli, Jowar, Groundnut,			
		Arecanut, Coconut, Mango and other Commercial crops.			

S. No	Agro ecological situation	Characteristics
1	Southern Plateau and Hills	Typical semi-arid zone; About 80 % of the area falls under rainfed farming; Cropping intensity is very low. Soils are
		shallow and medium, loamy red, Major crops are Rice, maize, sugarcane, Arecanut, coconut and millets.

# 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Red Sandy Soil	Low water holding capacity	1, 26,000
	(Harihara, Channagiri,	Neutral pH	
	Jagalur, Davanagere Tq.)	Low Nitrogen content	
		Medium in Phosphorus and Potash	
2	Deep to Medium Deep Black Soil (Jagalur, Davanagere, Harapanahalli)	High water holding capacity	54,000
		Neutral to Alkaline pH	
		Medium in Nitrogen and Phosphorus	
		High Potassium	
3	Mixed Red and Black Soil	Medium water holding capacity	1, 62,000
	(Honnali, Jagalur, Harapanahalli)	Neutral pH	
		Medium in Nitrogen, Phosphorus and Potassium	
		content	
4	Sandy Loam Soil	Poor water holding capacity	18,000
	(Harapanahalli, Davanagere)	Neutral pH	
		Deficient in Nitrogen, Phosphorus and Potassium	
		Total	3, 60,000

# 2.4. (a) Area, Production and Productivity of major crops cultivated in the district (2016-17)

	Unit: Area in Hects., Prodn. In Tonnes, Cotton prodn. In bales of 170 Kg lint, Yield in Kgs/hect. Sugarcane yield in Tonnes/hect					
Sl. No.	Crop	Area	Production	Yield		
1	Rice	120876	569926	4715		
2	Jowar	12343	29102	2358		
3	Ragi	14508	31837	2194		
4	Maize	188448	806475	4280		
5	Bajra	1502	2410	1605		
6	Wheat	232	361	1556		
7	Minor Millets	114	91	800		
I	<b>Total Cereals:</b>	338278	1440203			
1	Tur (Pigeon pea)	8266	10033	1214		
2	Bengalgram	5777	5777	1000		
3	Horsegram	1822	2525	1386		
4	Blackgram	141	143	1016		
5	Greengram	1113	1109	996		
6	Cowpea & other	2583	3745	1450		
7	Avare	1506	1292	858		
II	Total Pulses:	21208	24624			
	Total Foodgrains:	359486	1464827	4075		
1	Groundnut	18228	26473	1452		
2	Sesamum	136	203	1489		
3	Sunflower	4586	5364	1170		
4	Castor	350	385	1100		
III	Total Oilseeds:	23558	32531			

IV	Commercial Crops:	47360	1459244	
1	Cotton	29267	65723	382
2	Sugarcane Planted	5910	719040	122
2a	Sugarcane Ratoon	6345	674410	106
3	Tobacco (VFC)	16	71	0
3a	Tobacco (Beedi)	5822	0	0
	GRAND TOTAL	430404	2956601	

(Source: Department of Agriculture, Davanagere)

#### 2.4. (b) Area, Production and Productivity of Horticulture crops in the district (2016-17)

S.	Crop	Area (ha)	Production (Metric tons)	Productivity (t /ha)
No				
1	Mango	4376	35279	8.06
2	Banana	5075	76871.46	15.15
3	Lemon	166.43	1369.42	8.23
4	Sapota	981.31	8772.14	8.94
5	Pomegranate	425	5224.36	44.65
6	Papaya	384	8292.50	21.60
7	Tomato	5583.20	98798.30	15.56
8	Brinjal	303.04	4491	14.82
9	Beans	516.96	2745.5	5.31
10	Onion	5340.3	94354.1	11.87
11	Green Chilli	1204.14	17810.91	14.79
12	Bhendi	439.11	2039.56	4.64
13	Radish	214.93	1914.61	8.91
14	Capsicum	158.60	1962.42	12.37
15	Cabbage	155.80	3461.68	22.22
16	Khol-Knol	180.96	3394.39	18.76
17	Clusterbean	135.65	918.22	6.77
18	Muskmelon	122.50	1655	13.51
19	Drumstick	159.08	459.11 Lakh Sticks	2.89
20	Watermelon	343	5741.10	16.64

21	Bitterguard	124.50	862.22	6.93
22	Ridge gourd	158.65	1238.61	7.81
23	Cucumber	194.44	2992.91	15.39
24	Coconut	14897	2559.14 Lakh Nuts	0.1718
25	Arecanut	42884	73268.23	1.71
26	Pepper	220	4.40	0.02
27	Betelvine	1137.73	3768.90 Lakh Leaves	3.31
28	Oil palm	1739.79	10286.98	4.71
29	Cocoa	816	597.32	0.73
30	Marigold	1047.85	3885.85	3.71

Soruce: Departement of Hroticulture, Davanagere

#### 2.5 Production and productivity of livestock, Poultry, Fisheries etc. in the district

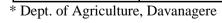
Category	Population	Production	Productivity
Cattle			
Crossbred	111371	41975	6 liter/day
Indigenous	283752		
Buffalo	223601		
Sheep	•	•	
Exotic (Sheep)	22		
Indigenous	333435		
Goats	153940		
Pigs			
Crossbred	01		
Indigenous	6492		
Rabbits	170		
Poultry			
Hens	2054012		

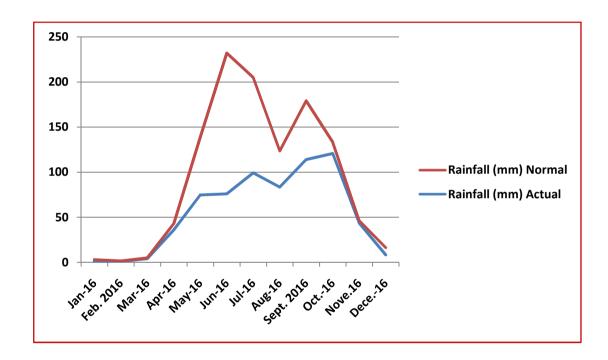
Category	Area	Production	Productivity
		(tons)	kg/ha
Inland		16052.53	800

Source: Department of statistics, Davanagere: (2014-15)

#### 2.6. Weather data (2016):

Month	Rainfall (mm)		
Month	Normal	Actual	
January 2016	0.9	2.1	
February 2016	1.0	0.6	
March 2016	4.1	0.9	
April 2016	36.0	6.9	
May 2016	74.7	63.8	
June 2016	76.0	155.9	
July 2016	99.3	105.6	
August 2016	83.5	40.0	
September 2016	114.0	65.1	
October 2016	120.7	12.5	
November 2016	43.7	2.7	
December 2016	8.3	8.0	
TOTAL	662.2	463.8 (-31%)	

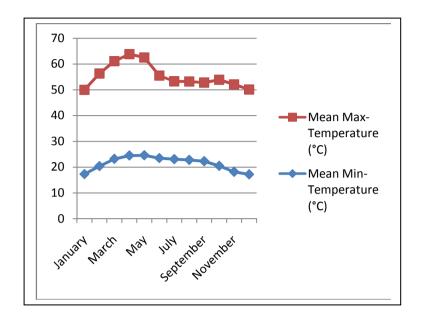




#### **Davanagere District Temperature 2016**

Month	Mean Min- Temperature (°C)	Mean Max-Temperature (°C)
January	17.3	32.7
February	20.4	35.9
March	23.2	37.9
April	24.5	39.3
May	24.6	37.9
June	23.5	32.0
July	23.1	30.2
August	22.8	30.4
September	22.3	30.5
October	20.5	33.4
November	18.2	33.9
December	17.2	32.9

Source: KSNDMC, Bengaluru



#### 2.7 District profile has been Updated for 2016-17: Yes

# 2.8 Details of Operational area / Villages

Taluk Name	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	2	3	4	5	6	7
Channagiri	Santhebennur	Doddabbigere	1 years	Mango	Low yield	Integrated
					Old age orchards	Crop
					Stem borer incidance	Management
					Fruit fly incidance	
Davanagere	Mayakonda	Shyagale	3 years	Marigold	Lack of good varieities	Integrated
					Low yield	Crop
		a	2			Management
Davanagere	Mayakonda	Shyagale	3 years	Coconut	Poor yield	Integrated
					Non use of interspace	Crop Management
Davanagere	Mayakonda	Kodaganur	1 years	Chinaaster	Lack of good varieities	Integrated
Davanagere	Widyakonda	Roduguitai	,	Cimiladister	Low yield	Crop
					Low yield	Management
Davanagere	Anagodu	Siddanuru	5 year	Arecanut	Water prolem	Integrated
					Hidimundige syndrome	Crop
					Nut splitting	Management
					Kolergoga	
					Improper nutrient management	
					Absence of suitable intercrops	
					Labour problem	
					Deficiency of boron and potassium	
					Dropping and shedding of nuts	

Harihara	Malebennur	Kumbalur	2 year	Coconut	Poor utilization of interspace	Integrated
					Lower yield level	Crop
					Premature nut dropping	Management
					Anaberoga and mites	
					Nut cracking	
Harapanahalli	Chigateri	Kadabagere	3 years	Onion	Low yield	Integrated
					• Lack of good quality seeds	Crop
					Purple blotch	Management
					• Thrips	
Davanagere	Mayakonda	Annapura	2 years	Redgram	Low yield	ICM
		Shyagale			No seed treatment with	
		Siddanur			biofertilizers	
					Use of local varieties	
					• Incidence of pod borer & wilt	
Davanagere	Bilichodu	Tarehalli	1 year	Maize	Low yield	IPDM
					<ul> <li>No seed treatment with biofertilizers</li> </ul>	
					• Incidence of stem borer and sheath blight blight	
Harapanahalli	Arasikere	Kuremaganahalli	4 year	Banana	Sigatoka leaf spot	IDM
					Skipper problem	
					No use of bio fungicides	
Davanagere	Davanagere	Halebisleri	4 year	Banana	Skipper problem	IPM
					No use of bio fungicides	]

					ICAK-1	araiabaiu KVK, i		
Harapanahalli	Chigateri	Myduru	1 year	Finger Millet	• Low yield	ICM		
				Willet	Non- availability of HYV			
					• No seed treatment with bio- fertilizers			
Harapanahalli	Chigateri	Hunsehalli	2 years	Foxtail	Low yield	ICM		
				millet	Non- availability of HYV			
					No seed treatment with bio- fertilizers			
Davanagere	Maykonda	Shygale	2 years	Field	Low yield	ICM		
				Bean	No seed treatment with Bio fertilizers			
					Non-availability of HY varieties.			
					Improper nutrient management			
					Pode borer			
Harapanahalli	Chigateri	Hunsehalli and Sasvehalli	2 yeara	Bengal	Low yield	ICM		
					gram	No seed treatment with Bio fertilizers		
					Non-availability of HY varieties.			
					Pod borer and wilt			
					Improper nutrient management			
Harapanahalli	Chigateri	Myduru	1 year	Bengal	Low yield	ICM		
				gram	No seed treatment with Bio fertilizers			
					Non-availability of HY varieties.			
					Pod borer and wilt			
					Improper nutrient management			
Harapnahalli	Chigateri	Myduru	1 year	Sunflower	Low yield	ICM		
					• No use of ZnSO <sub>4</sub> and boron			
					Higher incidence of bud necrosis and head borer			

Davanagere	A.Basapura	A.Basapura	2 years	Dairying,	Low milk production,	Livestock
				sheep &	Repeat breeding	Nutrition
				goat	Weakness in Crossbred cattle &	Management
				rearing,	Clean and Quality milk production	
Harapanahalli	Arasikere	Kuremaganahalli,Ramanagara,	4 years	Sheep and	Rearing of local breeds	Livestock
		Chatnahalli		Goat		Nutrition
				rearing	Lack of balanced nutrition	Management
						& Clean
					Parasitic infestation	Milk
						Production.
Honnali	Malligenahalli	Belagutti	2years	Dairyimg	Low milk production,	Livestock
					Repeat breeding & weakness in	Nutrition
					Crossbred cattle	Management
					Clean and Quality milk	
					production	

# 2.9 Priority thrust areas

Sl. No.	Thrust area
1	ICM in Maize, Finger Millet, Sorghum, Cotton, Redgram, Bengalgram, Banana, Field bean, Sunflower. Arecanut, coconut, onion,
	Mango, Flower crops,
6	Livestock Nutrition management
7	Clean milk production

# PART III - TECHNICAL ACHIEVEMENTS

#### 3.A. Details of target and achievements of mandatory activities

	Ol	FT		FLD			
	1				2		
Nur	nber of OFTs	Numl	oer of farmers	Nur	nber of FLDs	Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	3	21	10	14	9	140	130
	3 (Not implemented)				3 (Continued) 2 not		
	, ,				implemented		
	1 (2015-16)	3 (2015-16)	3 (2015-16)		1		
	, ,	,	,	04 (2015-16)	4 (2015-16)	25 (2015-16)	25 (2015-16)
					, ,	,	,
				NFSM-3	2	75	75
					1 (Continued)		
				NMOOP-1	1	65	65
				FFS-1	1	25	25

	Trai	ning		Extension Programmes				
		3		4				
Numl	Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
57	69	1520	2687	639	535	8985	33119	

Seed Proc	luction (Qtl.)	Planting materials (Nos.)		
	5	6		
Target	Achievement	Target	Achievement	
14	1.57	24500	24736	

Livestock, poultry strain	ns and fingerlings (No.)	Bio-products (Kg)		
	7	8		
Target	Achievement	Target	Achievement	
5000	3161	15825	19166	

#### 3.B1. Abstract of interventions undertaken based on thrust areas identified for the district:

		C/	In the state of th	nterventions
Sl. No	Thrust area	Crop/ Enterprise	Identified Problem  Title of OFT if an	ny Title of FLD if any
1	2	3	4 5	6
1	Integrated Crop	Arecanut	Water prolem	Integrated Crop
	Management		Hidimundige syndrome	Management in
			Nut splitting	Arecanut
			Koleroga	
			Improper nutrient management	
			Absence of suitable intercrops	
			Labour problem	
			Deficiency of boron and potassium	
			Dropping and shedding of nuts	
2	Intercroping in	Coconut	Poor utilization of interspace	Drumstick (KDM-1)
	Coconut		Lower yield level	as inter crop in
			Premature nut dropping	Coconut gardens
			Anaberoga and mites	
			Nut cracking	
3	Intercroping in	Coconut	• Poor utilization of interspace Flowers as Intercre	op in
	Coconut		Lower yield level     Coconut Garden	
			Premature nut dropping	
			Anaberoga and mites	
			Nut cracking	
4	Integrated Crop	Marigold	Lack of good varieities	Introduction of Arka
	Management		Low yield	Agni Marigold as
				intercrop in Young
				Arecanut gardens

					CAK-Taraiabalu KVK, Davariay
5	Integrated Crop	Onion	Low yield		Production technology
	Management		Lack of good quality seeds		of HYV Bhima Super
			Purple blotch		in Davanagere District
			• Thrips		
6	Integrated Crop	China Aster	Lack of good varieities		Popularization of
	Management		• Low yield		China aster variety
					Arka Kamini In
					Davanagere District
7	Integrated pest	Banana	Banana skipper	Assessment of different	-
	Management			molecules for Banana	
				skipper management	
8	Integrated	Banana	Sigatoka leaf spot	-	Integrated
	disease				management of
	maangement				sigatoka leaf spot in
9	Integrated pest	Maize	- Y 11		Banana crop
9	Integrated pest and disease	Iviaize	• Low yield		management in Maize
	anagement in		No seed treatment with biofertilizers		with emphasis on IPDM
	Maize		Incidence of stem borer and sheath blight blight		practices
10	Intercrop in	Redgram	Use of local varieties		Integrated crop
	Maize		No application of bio-fertilziers		management in
			Incidence of pod borer and wilt		Redgram - BRG-5
11	Integrated Crop	Finger Millet	Low yield	-	Demonstration of
	Management		Non- availability of HYV and drought tolerant		HYV Ragi(ML-365)
			No seed treatment with bio- fertilizers		for delayed sowing
12	Integrated Crop	Foxtail millet	Low yield	Assessment of Foxtail	
	Management		Non- availability of HYV	Millet (Navane)	
			No seed treatment with bio- fertilizers	Varieties for higher	
				yield under rainfed	

	T	I			CAR-Taraiabalu KVK, Davanage
13	Integrated Crop	Field Bean	Low yield		Integrated Crop
	Management		No seed treatment with Bio fertilizers		Management practice
			Non-availability of HY varieties.		in Field Bean (Hebbal
			Improper nutrient management		Avare-4)
			Pode borer		
14	Integrated Crop	Sunflower	Low yield		Integrated Crop
	Management		• No use of ZnSO <sub>4</sub> and boron		Management in
			Higher incidence of bud necrosis and head borer		Sunflower
15	Integrated Crop	Bengal gram	Low yield	Assessment of	
	Management		No seed treatment with Bio fertilizers	Bengalgram Variety for	
			Non-availability of HY varieties.	Wilt and Drought	
			Pod borer and wilt		
			Improper nutrient management		
16	Integrated Crop	Bengal gram	Low yield		Integrated Crop
	Management		No seed treatment with Bio fertilizers		Management in
			Non-availability of HY varieties.		Bengalgram
			Pod borer and wilt		
			Improper nutrient management		
17	Integrated Crop	Cotton	Improper nutrient management		Integrated Crop
	management		Square dropping		Management in
			Leaf reddening		Cotton
			Improper spacing		
			Sucking pest		
18	Integrated Crop	Sorghum	Imbalanced nutrient management		Integrated Crop
	management		Soil moisture stress		Management in
			• Rust		Sorghum
			Stem borer		
19	Integrated Crop	Chilli	Sucking pest incidence		Integrated Crop
1	management		Improper nutrient Management		Management in Chilli

20	Integrated Nutrient Management	Onion	<ul><li>Imbalanced nutrient management</li><li>Less pungency</li><li>Small bulb</li></ul>	Role of sulphur in improving the productivity of onion	S III Yarahasara IVII y Savanaga
21	Nutrition Management	Dairying	• Inefficient utilization of available feeding resources leading to high production cost in Dairy animals	Effect of feeding urea treated Paddy straw along with grain mix for better performance in Dairy animals	-
22	Livestock Nutrition and Management	Sheep and Goat	<ul> <li>Parasitic infestation</li> <li>Animal exposed to various agro climatic condition.</li> <li>Lack of balanced nutrition</li> </ul>	-	Balanced feeding and total deworming in small ruminatore for better performance.
23	Nutrition and Management	Fodder	Lack fodder/ Fertility problem /low quality milk	-	Fodder cafeteria
24	Nutrition and Management	Dairy	Under nutrition and unscientific management of dairy animals	-	Integrated management of Dairy animals for better performance.

#### 3.B1. Contd...

					Iı	nterventions				
Sl. No	Enterprise  2 Arecanut	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 livestock (No.)	Supply of b No.	io products Kg
1	2	7	8	9	10	11	12	13	14	15
1	Arecanut	-	-	7	-	-	-	1	10	1
2	Coconut	-	-	6	-	-	-			1
3	Coconut	-	-	-	-	-	-	-	-	-
4	Marigold	1	-	-	-	-	-	-	-	-
5	Onion	1	-	-	-	-	1	1	1	-
6	China Aster	-	-	-	-	-	-	-	-	-

									TCAIL TUTULO	alu KVK, Davallaye
7	Banana	1	-	-	07	-	1	-	-	-
8	Banana	1	-	-	10	-	-	-	Trichoderma harzianum	17 kg
9	Maize	1	-	-	09	BRG-2:	-	-		PSB-15 kg
						30kg				
10	Redgram	1	-	-	18	BRG-5: 125kg	-	-	Funnel trap- 250 nos Heli lures- 120 nos. Spodo lures- 130 nos.	PSB- 25 kg
11	Finger Millet	02	-	01	12	1.25	-	-	-	-
12	Foxtail Millet	01	_	-	09	0.45				PSB -3 kg
13	Field Bean	02	-	-	15	0.60			Neem Oil	51
14	Sunflower	03	-	02	-		-	-	Neem Oil	32.5 1
15	Bengal gram	02	-	01		1.20			Pheromone	100
									trap Heli lure	200
16	Bengal gram	03	-	01					Pheromone trap Heli lure	100 200
17	Cotton	2			11				Pheromone trap-100 Yellow sticky trap- 200	-
18	Sorghum	1			05					PSB-10kg Azatobactor- 10 kg
19	Chilli	1			4					
20	Onion									PSB-5kg
21	Dairying	01	-	05	-	-	-	-	-	-
22	Sheep and Goat	1	-	-	01	-	1	-	-	-

23	Fodder &	6	-	1	03	20.0	15000	-	_	-
	fodder									
24	Dairying	2	1	-	13	-	-	-	-	-

#### 3.B2. Details of technology used during reporting period

**Technology Refinement:** Nil

**Technology Assessments** 

#### 1. Foxtail Millet

Sl. No.	T:41.	of Tooler	ala arr	Com	uss of tools		C	o loto	• ~ ~		No. of	f programn	nes condu	cted	
Sl. No. Title of Technology Source of technology Crop/enterprise OFT FLD To The Second		Training	g (	Others (Sp	ecify)										
1		2			3			4		5	6	7		8	
1	(Navane)	Varieties	for higher		,		Fo	oxtail Mill	et	01	-	01		-	
	•					N	lo. of farm	ers covere	d	•	•		•		
	Ol	FT			FI	L <b>D</b>			Tra	ining			Others (	(Specify)	
Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	C/ST	Gen	eral	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
	-	-	-	-	-	-	-	54	-	-	-		-	-	-
03															

#### 2. Bengal gram (Chickpea)

Sl. No.	Title of Technology	Source of technology	Cuanlantaunuiga		No.	of programmes o	onducted
S1. NO.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
2	Assessment of Bengalgram Variety for Wilt and Drought tolerance	UAS,Dharwad JNKVV & ICRISAT, 2009 UAS,Raichur	Bengal gram	01	-	02	-
		No	of farmers covered				

	0	FT			FI	Ĺ <b>D</b>			Trai	ining			Others (	Specify)	
Ger	neral	SC	/ST	Gen	eral	SC	/ST	Ger	neral	SC	S/ST	Ger	eral	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
03	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-

#### 3. Banana (2015-16)

Sl. No.	Title of Technology	Course of technology	Cuanlantampia		No.	of programmes o	conducted
S1. No.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of different molecules	UAS (Bengaluru)	Banana	1		1	-
	for Banana skipper management						
		No.	of farmers covered	•	•		•

							1	o. oi tariii	iers covere	u						
		OI	FT			FI	LD			Trai	ning			Others (	Specify)	
	Gene	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST
M	[	F M F M F		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
3		-	-	-	-	-	-	-	3	-	_	1	-	-	-	-

# **4. Banana :** Not implemented due to no incidence of Banana skipper

Sl. No.		Title of Te	ah nalaaw		Course of	taahnalaar	C	an/antaunu	iae		No. of	f programn	nes conduc	eted	
S1. NO.		Title of Te	cimology		Source of	technology	Cr	op/enterpr	ise	OFT	FLD	Training	g (	Others (Sp	ecify)
1		2			(	3		4		5	6	7		8	
1	Assessment of different molecular for Banana skipper management				UAS (Be	engaluru)		Banana		1	-	-		-	
						N	o. of farm	ners covere	d						
	Ol	FT			FI	LD			Tra	aining			Others (	Specify)	
Gen	eral	SC	/ST	Ge	neral	SC	'ST	Gen	eral	S	C/ST	Gen	eral	SC	/ST
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9					14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-

# **5. Onion :** Could not implement due to insufficient soil moisture in operation village.

Sl. No.		Title of Te	ahnalaav		Source of	taahnalaa	C	on/ontown	ico		No. o	f programn	nes condu	cted	
S1. INU.		Title of Te	cimology		Source of	technology	CI	op/enterpr	ise	OFT	FLD	Training	g	Others (Sp	ecify)
1		2	1			3		4		5	6	7		8	
1	1 Role of sulpher in improvi productivity of onion				DOGR	R, Pune		Ouion		-	-	-		-	
						N	lo. of farn	iers covere	d						
	Ol	FT			FI	L <b>D</b>			Tr	aining			Others	(Specify)	
Gen	eral	SC	/ST	Ge	eneral	SC	/ST	Gen	eral	S	C/ST	Ger	neral	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
-	_	-	-	-	-	-	-	3	-	_	-	-	-	-	-

#### 6. Coconut

Sl. No.	T;41.	of Tooline	alogy.	Com	naa af taab	nology	C	an/antawny	iao		No. o	of programn	nes conduc	cted			
51. 110.	1100	e of Techno	nogy	Soul	rce of tech	nology	Cr	op/enterpr	ise	OFT	FLD	Training					
1		2			3		4 5 6 7						8				
1	Coconut (Not Im	as Inter Garden aplimented ilability of	l due to		PCRI,Kasa	nrgod		Coconut									
						N	o. of farm	ners covere	d				•				
	Ol	FT			FI	Ĺ <b>D</b>			Tr	aining			Others (	(Specify)			
Gen	General SC/ST			Gen	eral	SC	'ST	Gen	eral	S	C/ST	Gen	eral	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		

CI No	T:41.	o of Toolog	ala av	Com	uss of tools	mala aru	C-		iaa		No. o	of programn	nes cond	ucted	
Sl. No.	2 3						CI	op/enterpi	ise	OFT	FLD	Training	5	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
1	treated	of feedi paddy stra rain mix performa nimals.	aw along ture for	1	NDRI, Ker		lo. of farn	Dairying	d	1	-	01		Group discu ethod demo	
	O	FT			Fl	L <b>D</b>			Tra	nining		Oth	ers (Fod	der enrichn	nent)
Ger	neral	SC	/ST	Gen	eral	SC	/ST	Ger	eral	S	C/ST	Ger	eral	SC	C/ST
M	F	F M F M F M			M	F	M	F	M	F	M	F	M	F	
4	-	1	-	-	-	-	-	4	-	1	-	12	-	01	-

#### **Fornt Line Demosntrations:**

#### 1. Maize

Sl. No.	Title	of Techno	ology	Som	rce of tech	nology	Cr	op/enterpi	iso		No. o	f programn	nes conduc	cted	
SI. 1NO.	1146	of Technic	ology	Soul	rce of tech	nology	Cr	op/enterpi	ise	OFT	FLD	Training	g (	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
2	2 Integrated crop management in Maize with emphasis on IPDM practices  OFT			UA	AS (Bengl		Ja of form	Maize		-	1	1		-	
	0			FI	LD	10. 01 1a11	licis cover		ining			Othors (	(Specify)		
			/C/FD	~			ICE	~			a ram			<u> </u>	/C/FD
Ger	General SC/ST			Gen	eral	SC	ST	Ger	neral	S	C/ST	Gen	ieral	SC	/ST
$\mathbf{M}$	$\mathbf{F}$	$\mathbf{M}$	F	$\mathbf{M}$	$\mathbf{F}$	M	${f F}$	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	1	1		10	-	5	1	12	-	07	-	-	-	-	-

# 2. Finger Millet

Sl. No.	Tiele	of Techn	ology	Som	rce of tech	nology	Cm	op/enterpr	rico .		No. o	f programi	nes condu	cted	
51. 140.	1100	or recini	ology	Soul	rce or tech	norogy	Cr	op/emerpr	ise	OFT	FLD	Trainin	g (	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
	Demons	tration of	f HYV	U.	AS, Banga	lore	F	inger Mille	et	-	01	02		-	
	Ragi(MI	L-365) for	•												
	delayed sowing														
	1 2					N	lo. of farm	ners covere	ed						
	OFT				FI	LD			Tr	aining			Others (	(Specify)	
Gen	General SC/ST			Gen	eral	SC	/ST	Gen	neral	S	C/ST	Ger	eral	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
-	-	-	-	22	-	03	-	42	-	06	-	-	-	-	-

# 3. Sorghum

Sl. No.	T;4lo	of Toobn	alagy	Cour	oo of took	nology	Cwe	m lontown	<b>vi</b> go		No. of	programn	nes cond	ucted	
SI. NO.	Tiue	of Techn	ology	Sour	ce of tech	mology	Cre	p/enterp	rise	OFT	FLD	Training	g (	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
1	Integrate		U	AS, Dhar	wad		Sorghum			1	1	Ex	tension acti	vities-5	
	management in Sorghun														
	1 5					No	o. of farme	ers covere	d						
	OF	T			FI	L <b>D</b>			Tra	ining			Others	(Specify)	
Gene	General SC/ST			Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	'ST
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Sorghum		•		08	01		01	08							

#### 4.Field Bean

Sl. No.	T:41.	of Toolor	.l	Com	uss of took		C	a == la == <b>t</b> a === ==	iaa		No. o	f programr	nes condu	cted	
S1. NO.	1146	of Techno	ology	Soul	rce of tech	notogy	Cr	op/enterpr	ise	OFT	FLD	Training	g (	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
1.	Integrat	ed Crop		U	AS,Banga	lore		Field Bear	l	-	01	02		-	
	Management practice in Field Bean (Hebbal														
	Field Be	an (Hebb	al												
	Avare-4)														
		-				N	lo. of farn	ers covere	d						
	Ol	FT			Fl	L <b>D</b>			Tra	aining			Others	(Specify)	
Gen	eral	SC	/ST	Gen	eral	SC	/ST	Ger	eral	S	C/ST	Ger	eral	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
-	-	-	-	03	-	02	-	20	-	06	-	-	-	-	-

# 5. Redgram

Sl. No. Title of Technology  1 2 3 4 5 6 7 8  3 Integrated crop management in Redgram - BRG-5 UAS (Bengaluru)  1 Redgram - UAS (Bengaluru)  1 Redgram - UAS (Bengaluru)	CI	No	Title of Technology	Source of	Crop/enterprise		No.	of programmes o	conducted
	51.	110.	Title of Technology	technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
	1	1	2	3	4	5	6	7	8
	3	3			Redgram	-	1	1	Field day-01

						N	o. of farm	ers covere	d						
	Ol	FT			FI	L <b>D</b>			Trai	ning			Others (	Specify)	
Gen	General SC/ST General					SC	/ST	Gen	eral	SC	/ST	Gen	eral	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
-	-	-	-	22	1	2	-	11	1	2	-	51	04	02	1

6. Bengal gram (Chickpea)

Sl. No.	Title of Technology	Course of technology	Cuantannia		No.	of programmes o	conducted
S1. NO.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Integrated Crop Management in Bengal gram	UAS,Dharwad	Bengalgram (Chickpea)	-	01	03	-
		No	of formers covered				

						N	o. of farm	iers covere	d						
	0	FT			F	LD			Trai	ining			Others (	Specify)	
Ge	eneral	SC	C/ST	Ger	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	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
-	-	-	-	23	-	02		47	-	07	-	-	-	-	-

Sl. No.	Title of Technology	Source of technology	Crop/enterprise		No.	of programmes c	onducted
51. 110.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
	Integrated Crop Management in Arecanut	UAS (Bengaluru)	Arecanut		1	1	
	·	No	. of farmers covered				

	Ol	FT			FI	LD			Trai	ning			Others (	Specify)	
Ger	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST
M	F	M	F	M	F	M	M F		F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	4	-	1	-	33	-	5	-	-	-	-	

#### 8. Coconut (2015-16)

	Sl. No.	Title of Technology	Source of technology	Crop/enterprise		No.	of programmes o	conducted
	51. 140.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
	1	2	3	4	5	6	7	8
		Drumstick (KDM-1) as intercrop in Coconut gardens	UHS (Bagalkote)	Coconut		1	1	-
ŀ		0			1	l	I	

#### No. of farmers covered

	0	FT			FI	LD			Trai	ning			Others (	(Specify)	
Ge	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Ger	ieral	SC	/ST
M	F	M	F	M	F	M	M F		F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	6	3	-	1	16	-	-	-	-	-	-	

# 9. Banana (2015-16)

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted								
51. 110.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)					
1	2	3	4	5	6	7	8					
4	Integrated management of sigatoka leaf spot in Banana	UAS (Bengaluru)	Banana	-	1	1	-					
	No. of farmers covered											

	O	FT			FI	LD			Trai	ning			Others (	(Specify)			
Ge	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	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		
-	-	-	-	4	_	1	-	9	-	1	-	-	-	-	-		

# 10. Marigold

Sl. No.	Т:41.	of Tookna	alogy.	Com	nas of took	nology	C	an/antaunu	iao		No. of	f programmes conducted					
51. 110.	Sl. No. Title of Technology				rce of tech	norogy	Cr	Crop/enterprise			FLD	Training	g (	Others (Specify			
1		2			3 4 5 6 7		4			5 6		7 8					
	Introduction of Arka Agi Marigold as intercrop i Young Arecanut gardens				HR, Banga			Marigold ers covere	d		1						
	Ol	FT			FI	LD				ning			Others (	thers (Specify)			
Gen	General SC/ST General S					SC	/ST	Gen	eral	SC/ST		General		SC/S'			
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		

#### 11. Sunflower

Sl. No.	Title	e of Techno	ology	Som	rce of tech	nology	Cn	an/antannu	ico		No. of	f programn	nes conduc	cted		
51. 110.	11116	e of Technic	ology	Soul	rce of tech	nology	Cr	Crop/enterprise			OFT FLD		g (	Others (Specify)		
1		2			3			4		5	6	7		8		
1.	Integrat	ed Crop		U	AS,Banga	lore		Sunflower			- 01		03			
	Manage	ment in														
	Sunflow	er														
						N	o. of farm	ers covere	d							
	Ol	FT			FI	ĹD			Tra	ining			Others (	(Specify)		
Gen	General SC/ST Ge				eral	SC	/ST	General		SC/ST		General		SC/S		
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	
-	-	_	-	44	-	21	-	125	-	44	-	-	-	-	_	

#### 12. Chilli (2015-16)

Sl. No.	Title	of Techn	ology	Sour	ce of tech	nology	Cre	an/ontorni	ico	No. of programmes conducted									
S1. 1NO.	11116	or recini	ology	Sour	ce of tech	nology	Cro	op/enterpi	ise	OFT	FLD	Training	g (	Others (Specify					
1		2		3 4 5 6 7							8								
1	Integrate	ed Crop		III	HR, Benga	aluru		Chilli			1	1	Ex	Extension activiti					
	manager	nent in Ch	nilli																
						No	o. of farm	ners cover	ed										
	Ol	FT			FI	L <b>D</b>			Tr	aining			Others	(Specify)					
Gen	eral	SC	/ST	General SC/S'			/ST	T General		SC/ST		General		al SC/ST					
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
			05				08		02										

Sl. No.	T;41.	o of Toolon	ology.	Com	was of took	nology	C	an lantaun	r <b>i</b> go		No. of	f programmes conducted				
S1. No.	11110	e of Techno	ology	Sou	rce of tech	morogy	Cr	op/enterpr	ise	OFT	FLD	FLD Training		Others (Specify)		
1		2			3		4			6	7	7 8				
1	Integrate	-		U.	AS, Benga	aluru		Cotton			1	2	Exte	Extension activitie		
	management in Cotton															
						N	o. of farm	ers covere	ed							
	0	FT			<b>F</b> ]	LD			Tra	aining			Others	Others (Specify)		
Gen	General SC/ST General SC/S					/ST	Ger	neral	SC	C/ST	Ger	eral	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	
-	-	-	-	17	01	2		24	01	04	-	-	-	-	-	

#### 14. Onion: Could not complete due to scarcity of rains.

CI No	T:41	o of Tooler	ala av	Corre	use of took		C		•••		No. o	No. of programmes conducted						
Sl. No.	1111	e of Techn	ology	Soul	rce of tech	notogy	Cr	Crop/enterprise 4			FLD	Training		Others (Specify)				
1		2			3						6	7		8				
	Production technology of HYV Bhima Super in Davanagere District				HR, Bang						1	1						
							o. of farn	<u>iers covere</u>				•						
	0	FT			Fl	LD			Tra	aining			Others	(Specify)				
Gen	eral	SC	/ST	General SC		SC/ST		neral	S	C/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			
-				4		1		7		2								

# 15. China Aster: Not implemented due to non availability of Seeds.

									1					abalu KVK, D	avanagere
Sl. No.	Title	of Techno	ology	Som	rce of tech	nology	C	op/enterpi	rico			f programn			
51. 110.	1111	of recini	ology	Sou	ice of item	mology	CI	op/enter pr	150	OFT	FLD	Training	5	Others (Sp	ecify)
1		2			3			4		5	6	7		8	
	aster v	arization ovariety Ark vanagere D	ta Kamini	III	IIHR, Bangalore China Aster										
						N	o. of farn	ners covere	d						
	OI	FT			FI	L <b>D</b>			Tr	aining			Others	(Specify)	
Gen	eral	SC	/ST	Gen	eral	SC/	ST	Ger	General SC/ST			Ger	eral	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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16. Sheep	p and Goa	t						•	•			1	•	•	
Sl. No.			ology	Con	was of took	mology		man/antamn	wias		No.	of program	mes cond	ucted	
SI. 1NO.	1100	e of Techn	ology	Sou	rce of tech	morogy		rop/enterp	rise	OFT	FLD	Trainir	ng	Others (S	ecify)
1		2			3			4		5	6	7		8	_
1	deworm	ing in	and total small		KVAFS	U	Sh	eep and G rearing	oats	-	1	1	Fi	Group Modeld visit &	Method
	ruminan performa		better											Demonstr	auon.

TA.T	•	c	
NO	Λt	tarmerc	covered

	Ol	FT			FI	L <b>D</b>			Trai	ining		Method	demonstra	ation)	
Gen	neral	SC	/ST	Gen	eral			Gen	eral	SC	/ST	Ger	neral	SC	/ST
						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
-	-	-	_	1	-	7	2	14	_	4	2	5	-	8	2

No. of programmes conducted

SI No	Sl. No. Title of	of Toobn	ology	Som	ree of tech	nology	Cr	on/ontornr	iso		No. o	of programn		ıcted	-
S1. INU.	1111	e of Technic	ology	Soul	Source of technology Crop/enterprise			150	OFT	FLD	Training	5	Others (Sp	ecify)	
1		2		3 4			5	6	7		8				
23	Fodder o	cafeteria		KVA &	KVA & FSU (Bengaluru) Mixed Fodder corps			-	1	1	G	roup discu	ssion-1		
														Field vis	it-2
						N	o. of farm	ers covere	d						
	Ol	FT			F	LD			T	raining		Met	hod Dem	o ( Fodder	slips
													prepa	aration)	
Gen	neral	SC	/ST	Gen	eral	SC	ST	Gen	eral	S	SC/ST	Gen	eral	SC	S/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
-	-	-		8	-	2	-	12	-	-	-	8	1	2	-
1	1	1		1	I	I		1	1	1	1	ı			1

18. Integrated Management of Dairy Animals

5

SI. No.	l Title	e of Techno	nlogy	COIL	rce of tech	nology	Cr	op/enterpr	ico	Se					
51. 110.	1100	of Iccinic	ology	500	ice of teen	nology		op/cntci pi	isc	OFT	FLD	Training	5	Others (Sp	ecify)
1		2 3					4		5	6	7		8		
31	Integrated management of Diary animals for better performance				KVA & F	SU	No. of	Dairying  farmers co	vered	-	1	1		roup discus visory Field	
	OI	FT			Fl	L <b>D</b>			Tra	aining		Oth	ers ( Fodd	ler enrichm	ent)
Gen	eral	SC	SC/ST General SC/ST		/ST	Ger	eral	SC	C/ST	Gen	eral	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

14

## PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management				СТОРБ				Crops	СТОРЫ	
Varietal Evaluation					01			01		02
					Not			Not		
					implemented			Implimented		
	01		01					-		02
Integrated Pest Management						01				01
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	01		01			01		01		05

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										

Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Nutrition Management	01	-	-	-	-	01
TOTAL	01					01

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

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

#### 4.B. Achievements on technologies Assessed and Refined

## 4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Onion	Role of sulphur in improving the productivity of onion	05	05	2.0
Varietal Evaluation	Foxtail millet	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated	03	03	1.2 ha
	Bengal Gram	Assessment of Bengalgram Variety for Wilt and Drought	03	03	1.2 ha
Integrated Pest Management	Banana	Assessment of different molecules for Banana skipper management	03	03	1200 plants
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					
Tota	<b>1</b> 04		14	14	

## 4.B.2. Technologies Refined under various Crops - Nil

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

## 4.B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the	Name of the technology assessed	No. of trials	No. of farmers
	livestock enterprise			
Nutrition management	Cattle	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.	05	05
		Total	05	05

## 4.B.4. Technologies Refined under Livestock and other enterprises

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

## 4.C1. Results of Technologies Assessed

#### **Results of On Farm Trial**

## 1. Foxtail millet (Navane)

Crop/ enterpris e	Farmin g situatio n	Problem definitio n	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the param eter	Results of assessment	Feedback from the farmer	Any refi nem ent need ed	Justifica tion for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Foxtail	Rainfed	Low	Assessment	03	Technology	1.Plant height	1. 85.9	Drought	SIA 2644		
millet		yield	of Foxtail		option 1	(cm)	2. 14.7	tolerant,	and DHFt-		
			Millet		(Farmer's	2.Panicle	3. 6.2	Compact	109-3		
			(Navane)		practice) :	length(cm)		Panicle,,	varities		
			Varieties		HMT-100-1	3. Seed		Pink hairs in	performed		
			for higher		Technology	wiegth	1. 95.3	the variety	better even		
			yield under rainfed		option 2:	/pancile	2. 15.9	SIA-264 is	under		
			situated		Seed-SIA-2644		3. 7.3	better	severe		
			Situateu		Technology		1. 94.7	compared to	drought		
					option 3:		2. 15.3	other	condition		
					DHFt-109-3		3. 7.1	varieties			

#### Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return	BC Ratio
12	1/	15	16	(Rs. / unit)	10
13	14	15	10	17	18
Technology option 1 (Farmer's practice): HMT-100-1	UAS,Dharawad	5.6		4,940	1.57
Technology option 2-SIA-2644	UAS, Raichur	7.2	q/ha	9,220	1.97
Technology option 3- DHFt - 109-3	UAS, Dharawad	7.1		8,700	1.91

## 2. Bengal gram

Crop/ enterpris e	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramet er	Results of assessment	Feedback from the farmer	Any refine ment neede d	Justifica tion for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Bengal	Rainfed/	Low yielding	Assessm	03	Technology	1. Plant height	1.30.6	GBM-2 is	GBM-2 is		
Gram	Irrigated	varieties No seed	ent of		<b>option 1:</b> JG-11	(cm)	<b>2</b> .64.3	better	long		
		treatment with	Bengalgr			<b>2.</b> No. of	<b>3</b> .06.8	compared	duation		
		bio fertilizers	am			pods/plant	4.90	to other	and comes		
		Susceptible to	Variety		Technology	3. Wilt	1.35.7	varieites.	to harvest		
		stress condition	for Wilt		option 2:	Resisitant (%)	<b>2</b> .66.5	JAKI-	nearly		
		Susceptible to	and Drought		JAKI-9218	<b>4.</b> Duration	<b>3</b> .03.0	9218is also	100-113		
		pest and diseases	toleranc			(days)	4.90	wilt	days		
			e		Technology		<b>1</b> .44.9	resistant			
					option 3:		<b>2</b> .68.9				
					GBM-2		<b>3</b> .04.0				
							4.103				

## Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Rs. / unit)	BC Ratio
13	14	15	16	17	18
Technology option 1- JG-11	UAS,Dharawad	8.5		24950	1.99
Technology option 2-JAKI -9218	JNKVV & ICRISAT	9.3	q/ha	29670	2.18
Technology option 3-GBM-2	UAS,Raichur	11.5	]	42350	2.66

## 3. Onion

Crop/ enterpris e	situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramet er	Results of assessment	Feedback from the farmer	Any refine ment neede d	Justifica tion for refineme nt
Onion	Irrigat ed	<ul> <li>Imbalance d nutrient managem ent</li> <li>Small bulb</li> <li>Less pungency</li> </ul>	Role of sulph ur in impro ving the produ ctivit y of onion	05	T <sub>1</sub> — Application of 100:75:20 kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha along with FYM  T <sub>2</sub> — RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) along with FYM  T3- RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) along with FYM  T3- RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) along with FYM and 45kg sulphur through elemental sulphur	<ul> <li>7</li> <li>Size of the bulb</li> <li>Weight of bulb Yield</li> </ul>		puld not be ta n operational a		to insuf	ficient soil

Technology Assessed	Source of Technology	Production	Unit	Net Return (Rs. / unit)	BC Ratio
13	14	15	16	17	18
T <sub>1</sub> -Application of 100:75:20 kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha along with FYM	Farmers practice	$ \begin{array}{ccc} T_1 & -\text{Application} & \text{of} \\ 100:75:20 & \text{kg} \\ N:P_2O_5:K_2O & /\text{ha} \\ \text{along with FYM} \end{array} $			
T <sub>2</sub> – RDF (125:50:125 Kg N:P:K/ha) along with FYM	UAS (B)	T <sub>2</sub> - RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) along with FYM		ng could not be t ufficient soil mo	
T3- RDF (125:50:125 Kg N:P:K/ha) along with FYM and 45kg sulphur through elemental sulphur	DOGR, Pune	T3- RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) along with FYM and 45kg sulphur through elemental sulphur		operational ar	rea

## 4. Banana (2015-16)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Banana	Irrigated	Incidence of banana skipper	Assessment of different molecules for managemen t of banana skipper	03	Technology option 1 (Farmer's practice): Chlorpyriphos (2ml/l)  Technology option 2: Flubendaimide 480SC (0.25 ml/l)  Technology option 3: Chlorantran i liorole 18.5SC (0.3 ml/l)  Technology option 4: Hand picking & destroying	1.Yield (t/ha) 2.% Larval mortality 3. Precount 4. Post count 5. Freshly damaged leaves after 15 DAS 6. Freshly damaged leaves after 30 DAS	1) 12.43 2) 70 3) 80 4) 4.24 5) 15 6) Nil 1) 16.87 2) 80 3) 85 4) 17 5) 08 6) Nil 1) 16.48 2) 78 3) 87 4) 20 5) 10 6)Nil 1) 11.24 2) 72 3) 4) 5) 13 6) Nil	- Spray with Flubendiamid e recorded more larval mortality and recorded higher yield - Observations were recorded from ten plants in each treatment	-Decline in the banana skipper populatio n after 15 days of spraying -Hand picking and destroying of larva is laborious process		

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T <sub>1</sub> -Farmers practice- Chlorpyriphos spray (2ml/l)	Farmers practice	12.47		1,44,250 /-	2.38
T <sub>2</sub> – Flubendaimide 480SC (0.25 ml/l)	UAS, Bengaluru (Paddy leaf folder)	16.87	t/ha	2,23,700 /-	2.96
T <sub>3</sub> – Chlorantrani liorole 18.5SC (0.3 ml/l)	KAU(Paddy leaf folder)	16.48		2,15,450 /-	2.88
T <sub>4</sub> - Hand picking & destroying		11.24		1,15,150 /-	2.05

## 5. Dairy

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen t neede d	Justifi cation for refine ment
1	2	3	4	5	6	7	8	9	10	11	12
Cattle	Semi	Lower	Effect of	05	Technology option -1	1)Milk	1) 1.024	<ul><li>There is</li></ul>	<ul> <li>Supply of</li> </ul>		
	intensive	productio	feeding		(Farmer's practice) :	quality	2) 5340.00	no	TMR		
		n,	urea treated		Feeding dairy animals	(CLR)	2) 3340.00	wastage	blocks		
		infertility	paddy		with paddy straw along		3) 18.72	of fodder	containing		
		and	straw along		with brans/cakes			and	urea-		
		repeat	with grain		<b>Technology option- 2:</b>	2)Cost of	1)1.027	animals	treated		
		breeding in dairy	mixture for better		Feeding dairy animals with urea treated paddy	feeding (Rs./60	2) 5580.00	like the enriched	straw and grain		
		animals	performanc		straw along with	days)	3) 12.27	fodder.	mixture is		
			e in Dairy		compounded cattle feed			This	beneficial		
			animals.		and vitamin mineral			method	to		
					mixture						

							 Davanag	
		Technology option -3:	3) cost of	1)1.028	helps in	farmers.	 	
		Feeding dairy animals	milk	2)5190.00	balanced	<ul> <li>Readyma</li> </ul>		
		with urea treated paddy	production	2)3190.00	feeding of	de feed		
		straw along with grain	(Rs/1)	3)10.52	dairy	blocks		
		mixture,Compounded			animals	containing		
		feed and vitamin				all the		
		mineral mixture			• Good	desired		
					quality	ingredient		
					chaff-	s are		
					cutter at	beneficial		
					reasonabl	to farmers		
					e price			
					should be			
					made			
					available			
					to farmers		1	

Technology Assessed	Source of Technology	Production	Unit	Net Return (Rs. / unit)	BC Ratio
13	14	15	16	17	18
Technology option- 1	Farmer's Practice	300.5	I itama/	2172.60	1.41
Technology option -2	KVAFSU, Bidar	501.58	Liters/ 60days	6959.60	2.25
Technology option- 3	NDRI, Karnal	515.72	oouays	7703.2	2.48

#### 4.C2. Details of each On Farm Trial for assessment:

#### 1. Foxtail millet (Navane)

- 1 Title of Technology Assessed: Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated
- **2 Problem Definition:** Low yield, No seed treatment with bio fertilizers
- 3 Details of technologies selected for assessment:

Technology Option –	Technology Option –	Technology Option –
HMT-100-1	SiA-2644	DHFt-109-3

## 4 Source of technology:

Technology Option –	Technology Option –	Technology Option –
UAS,Dharawad	UAS(Raichur)	UAS(D)

- 5 Production system and thematic area: Rainfed and Varietal evaluation
- 6 Performance of the Technology with performance indicators:

Technology options	Parameter		
	Plant height (cm)	Panicle length (cm)	Yield (q/ha)
Technology Option – 1. HMT-100-1	85.9	14.7	5.6
Technology Option – 2.SiA-2644	95.3	15.9	7.2
Technology Option – 3.DHFt-109-3	94.7	15.3	7.1

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

Performance of SiA-2644 foxtail millet variety is better under sever drought condition. Crop suffered dry spells nearly 35 days at grain filling stage.

- 8. Final recommendation for micro level situation: --
- 9. Constraints identified and feedback for research: High Yielding varieites should me made available to farmers.
- **10. Process of farmers' participation and their reaction:** Farmers actively participated and expressed that SiA-2644 matures early and yields are high in late kharif. DhFt109-3 had also performed well under sever dtrought. Both varieites are suited for drought areas.

#### 2. Bengalgram

- 1 Title of Technology Assessed:
- **2 Problem Definition:** Low yield, No seed treatment with bio fertilizers
- 3 Details of technologies selected for assessment:

Technology Option –	Technology Option –	Technology Option –
JG-11	JAKI-9218	GBM-2

4 Source of technology:

Technology Option –	Technology Option –	Technology Option –
UAS,Dharawad	JNKVV & ICRISAT	UAS(R)

5 Production system and thematic area: Irrigated and Varietal evaluation

#### 6 Performance of the Technology with performance indicators:

Technology options	Parameter		
	Plant height (cm)	<b>Duration (days)</b>	Yield (q/ha)
Technology Option – 1. <b>JG-11</b>	30.6	90	8.5
Technology Option – 2. <b>JAKI-9218</b>	35.7	90	9.3
Technology Option – 3. <b>GBM-2</b>	44.9	103	11.5

#### 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

GBM-2 grows higher than all the other varieties of trial.GBM-2 is long duration and it matures 10-12 days late than JAKI-9218 and JG-11.GBM-2 and JAKI 9218 are tolerant to wilt

- 8. Final recommendation for micro level situation: GBM-2 yields better when two irrigations and suited for mechanical harvesting.
- **9. Constraints identified and feedback for research:** High Yielding varities should be made available to farmers.
- **10. Process of farmers' participation and their reaction:** Farmers actively participated and expressed that GBM-2 matures 10 -13 days later than JAKI and JG and yields are better with two protective irrigation. GBM-2 and JAKI 9218 are tolerant to wilt.

## **3. Banana skipper.** (2015-16)

1 Title of Technology Assessed: Assessment of different molecules for management of banana skipper.

2 Problem Definition: Incidence of banana skipper

3 Details of technologies selected for assessment:

Technology options	Details of technology
Technology Option – 1	Chlorpyriphos spray (2ml/l)
Technology Option – 2	Flubendaimide 480SC (0.25 ml/l)
Technology Option – 3	Chlorantraniliorole 18.5SC (0.3 ml/l)
Technology Option – 4	Hand picking & destroying

## 4 Source of technology:

Technology options	Source of technology
Technology Option – 1	
Technology Option – 2	UAS, Bengaluru (Paddy leaf folder)
Technology Option – 3	KAU(Paddy leaf folder)
Technology Option – 4	

5 Production system and thematic area: Irrigated and Integrated Crop management

6 Performance of the Technology with performance indicators:

Sl No	Particulars	Farmers Practice	Technology option 1	Technology option 2	Technology option 3
1	Pre -count	80	85	87	-
2	Post- count	24	17	20	-
3	% Larval mortality	70.0	80.0	78.0	72.0
4	Freshly damaged leaves 15 DAS	15.0	8.0	10.0	13.0
5	Freshly damaged leaves 30 DAS	Nil	Nil	Nil	Nil
6	Yield (t/ha)	11.43	16.87	16.48	11.24

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation/other scoring techniques: Decline in the banana skipper population after 15 days of spraying
- 8 Final recommendation for micro level situation: Spray with Flubendaimide recorded more larval mortality
- 9 Constraints identified and feedback for research: --
- 10 Process of farmers participation and their reaction: Hand picking and destroying of larva is laborious process

#### 4. Dairying

- 1 Title of Technology Assessed: Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.
- 2 **Problem Definition:** Lower production, infertility and repeat breeding in dairy animals
- 3 Details of technologies selected for assessment:

Technology options	Details of technology
<b>Technology Option – 1</b>	Feeding dairy animals with paddy straw along with brans/cakes
<b>Technology Option – 2</b>	Feeding dairy animals with urea treated paddy straw along with compounded cattle feed and vitamin mineral mixture
<b>Technology Option – 3</b>	Feeding dairy animals with urea treated paddy straw along with grain mixture, compounded feed and vitamin
	mineral mixture

#### 4 Source of technology:

Technology options	Source of technology
Technology Option – 1	Farmer's Practice
Technology Option – 2	KVAFSU, Bidar
Technology Option – 3	NDRI, Kernal

- **5. Production system and thematic area:** Semi intensive mixed dairy farming. Nutrition management
- 6. Performance of the Technology with performance indicators:

Technology options		Parameter	
	Milk quality (CLR)	Cost of feeding (Rs./60 days)	Milk Yield (Litres/60 days)
Technology Option – 1	1.024	5340.00	300.5
Technology Option – 2	1.027	5580.00	501.5
Technology Option – 3	1.028	5190.00	515.75

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: This technology is helpful in better utilization of poor quality feeding stuffs and also in reducing the feeding cost of milch animals.
- **8. Final recommendation for micro level situation:** Whenever farmers are using urea treated paddy straw, sufficient quantity of energy should be supplemented in the form of starch.
- **9.** Constraints identified and feedback for research: Whether continues feeding of urea to milch animals causes reproductive problems? This needs to be studied.
- **10. Process of farmers' participation and their reaction:** Farmers are actively participated in the feeding trial and they are convinced about the technology. They say this technology works well when the dry fodders are chopped and fed.
- 4. D1. Results of Technologies Refined-NIL

## PART V - FRONTLINE DEMONSTRATIONS

## 5.A. Summary of FLDs implemented during 2016-17

Sl. No	Category	Farmin g	Season and	Crop	Variety/ breed	Hybri d	Themat ic area	Technology Demonstrated	Area	(ha)		of farme ionstratio		Reasons for shortfall in
•		Situatio n	Year						Propos ed	Actual	SC/ST	Other s	Tota l	achievemen t
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Oilseeds	Rainfed	Kharif 2016-17	Sunflower	Hybrid	MES H-17	ICM	Integrated crop Management in Sunflower (NMOOP)	26	26	21	44	65	-
2	Pulses	Rainfed	Kharif 2016-17	Redgram	Variety		ICM	<ul> <li>Use of BRG-5 medium duration wilt resistant variety</li> <li>Use of Rhizobium, PSB and VAM 1kgeach/ha</li> <li>Spray with pulse magic (UAS, Raichur) 10g/l @ 5kg/ha</li> <li>Installation of pheromone traps @ 8no. / ha(16 lures)</li> <li>Spray with profenophos @ 2ml/l- ovicidal-1 l/ha</li> <li>Spray with neem based insecticide</li> </ul>	10	10	02	23	25	

						,		1			10	AIX Taraia	Daid KVK,	Davanagere
								@3ml/l - 11 /ha						
								<ul> <li>Spray with</li> </ul>						
								indaxicarb						
								@0.5ml/l -200						
								ml / ha						
	Pulses	Rainfed	Kharif	Field	Variety	HA-4	ICM	Integrated crop	02	02	02	03	05	_
				Bean	'			Management in	~ _	<u> </u>	-			
								Field Bean.						
		Rainfed	Rabi	Chickpea	Variety	JAKI-	ICM	Integrated crop	10	10	02	23	25	_
		Rainicu	2016-17	Спіскреа	Variety	9218	ICIVI	Management in	10	10	02	23	23	_
			2010-17			7210								
2	C 1	Rainfed	Kharif	Maize	Hybrid	Private	IPDM	Chickpea (NFSM)	06	06	10	05	1.5	
3	Cereals	Rainted		Maize	Hybrid	Private	IPDM	• Seed treatment	06	06	10	05	15	
			2016-17					with						
								Azospirillum and						
								Trichoderma						
								harzianum @						
								0.5kg./ha seeds						
								each						
								• Seed treatment						
								with						
								Imidachloprid						
								5ml/kg of seed						
								• Growing of						
								legume as						
								intercrop @						
								5kg/ha						
								• Collection and						
								C						
								infected plants						
								• Soil application						
								of ZnSO <sub>4</sub> ,						
								FeSO <sub>4</sub> @ 25 kg						
								each/ha and						
								borax 5kg/ha						
								• Spray with						
								Flubendiamide						
								@ 0.1 ml/l						

	ı			1									1	, Davariagere
								(62.5 ml/ha) and						
								Propiconozol						
								@1ml/l (0.25 l						
			<u> </u>		T =			/ha)						
4	Millets	Rainfed	Late Kharif 2016-17	Finger Millet	Variety	ML- 365	ICM	Demonstration of HYV Ragi(ML- 365) for delayed sowing	10	10	03	22	25	-
		Rain fed	Rabi 2016- 17	Sorghum	SPV- 2217		Integ rated Crop Mana geme nt	<ul> <li>Seed treatment with Azatobactor, VAM, PSB @ 200g/acre</li> <li>Seed treatment with Imidachloprid @ 5 ml/kg of seed.</li> <li>Spraying of 19:19:19 at 30DAS (1kg/acre)</li> <li>Application of ZnSO<sub>4</sub> - 5kg/acre</li> <li>Spraying of chlorpyriphos 20EC- @ 2ml/l</li> </ul>	04	04	01	09	10	
5	Vegetables	Rainfed	2016-17	Onion	Bhima Super		ICM	Popularization of Bhima Super variety	02	02	01	04	05	Not Impliment ed due to shortage of Rainfall during sowing and Drying of Bore wells

		Irrig ated	Sum mer 2015- 16	Chilli		Sem inis	Integ rated Crop Mana geme nt	<ul> <li>Soil test based fertilizer application</li> <li>Application of bio fertilizers</li> <li>Spraying imidachloprid 17.8 SL @ 0.5 ml/L Spraying of Vegetable special</li> </ul>	02	02		05	05	Davanagere
6	Flowers	Irrigated	2016- 17	Marigold	Arka Agni		ICM	Introduction of Arka Agni Marigold as intercrop in Young Arecanut Gardens	01	01	2	3	05	Crop is vitiated due to flood of water from adjoining paddy fields
		Irrigated	2016- 17	China aster	Arka Kamini		ICM	Popularization of Arka Kamini China Aster variety in Davanagere District	01	01				Not implemen ted due to non availability of seeds.
7	Ornamental													
8	Fruit	T	D 1:	D	G 1		TDM.		02	02	0.1	0.4	0.5	
		Irrigated	Rabi 2015- 16	Banana	Grand naine		IDM	<ul> <li>Removal of affected leaves and burning</li> <li>Planting seedlings in spacing (6x6).</li> <li>Adaptation of</li> </ul>	02	02	01	04	05	

	1	1	1		1			1		107	it Taraiai	Jaia KVIK,	, Davanagere
							drainage system  Spray with propiconozol (1ml/L) and carbendizim +mancogeb (2gm/l)  Repeat the spray depending upon incidence Soil application of trichoderma (12.5 kg/ha)				Tarulai	Janu Kvity	Davanagere
8	Spices and condiments				 								
9	Commercial	Rain fed	Khar if- 2016	Cotton	Bt- cott on (Vi kra m)	Integ rated Crop Man age ment	<ul> <li>Maintaining         Proper spacing         </li> <li>Spraying         Fipronil         80WG@         0.2g/l against sucking pests     </li> <li>Spraying of 1%         MgSO<sub>4</sub> + 1%         KNO<sub>3</sub> at 90 and 110 DAS     </li> <li>Spraying of planofix         (1ml/4.5 l of water) at flowering stage     </li> </ul>	08	08	02	18	20	

	ı	1	1	1				1				ii C Taraia	Jaia Ittiy	Davariagere
								• Yellow sticky						
								trap for						
10	Medicinal							sucking pest.						
10	and													
	aromatic													
11	Fodder	Irrigated	Kharif 2016-	Mixed fodder	Napier X +	-	ICM	• Growing of	02	02	02	08	10	
			17	crop	MP			leguminous and non-						
			1,	or op	Charry			leguminous						
					Jowar			fodder crops						
					+			(Fodder						
					Lucerne			cafeteria						
					+ Sesben			establishment)						
					ia spp.									
12	Plantation	Irrigated	2015-	Arecanut	Channa		ICM	ICM in Arecanut	01	01	01	04	05	
			16		giri Local									
		Irrrigat	2015-	Coconut	KDM-1		Intercr	Drumstick(KDM	04	04	01	09	10	
		ed	16				opping	-1) as intercrop in						
12	1501							Coconut garden						
13	Fibre		2016		TTE		DD 6		0.5	0.5		0.7	0.5	
14	Dairy		2016-	Cows	HFx		INM	Balanced  Full 1: 1	05	05		05	05	
			17					Feeding of dairy animals						
								(Total mixed						
								ration concept)						
15	Poultry													
16	Rabbitry													
17	Pigerry													

	T							1						Davanagere
18	Sheep and		2016-	Sheep &	Local		INM	<ul> <li>Balanced</li> </ul>	50 (10	50 (10	09	01	10	
	goat		17	Goat				feeding and	Sheep/	Sheep/				
	O							total	demo)	demo)				
								deworming in	,	,				
								small						
								ruminants for						
								better body						
								weight gain						
								and						
								reproductive						
								performance.						
19	Duckery	-				-	1			-	ł		-	
20	Common													
	carps													
21	Mussels												-	
22	Ornamenta													
	l fishes													
23	Oyster													
	mushroom													
24	Button													
	mushroom													
25	Vermicomp													
	ost													
26	Sericulture													
27	Apiculture													
28	Implements													
29	Others													
	(specify)													

# **5.A. 1. Soil fertility status of FLDs plots during 2016-17**

Sl. No	Category	Farmin g Situatio	Season and Year	Crop	Variety/ breed	Hybrid	Thema tic area	Technology Demonstrated	Season and year	St	atus soil	of	Previous crop grown
		n								N	P	K	
1	2	3	4	5	6	7	8	9	10	1 1	1 2	1 3	14
1	Oilseeds	Rainfed	Kharif 2016-17	Sunflower	Hybrid	MSFH- 17	ICM	Integrated crop Management in Sunflower (NMOOP)	Kharif2 016-17	Н	M	L	Maize
2	Pulses	Rainfed	Kharif 2016-17	Redgram	BRG-5		ICM	Integrated crop management in Redgram (BRG-5)	Kharif 2016- 17	L	M	Н	Maize
		Rainfed	Kharif	Field Bean	Variety	HA-4	ICM	Integrated crop Management in Field Bean.	Kharif 2016- 17	L	M	M	Ragi
		Rainfed	Rabi 2016-17	Chickpea	Variety	JAKI- 9218	ICM	Integrated crop Management in Chickpea (NFSM)	Rabi 2016- 17	Н	M	L	Maize
3	Cereals	Rainfed	Kharif 2016-17	Maize+ Redgram		Private	ICM	Integrated crop management in Maize with emphasis on IPDM practices	Kharif 2016- 17	M	Н	Н	Maize
4	Millets	Rainfed	Late Kharif 2016-17	Finger Millet	Variety	ML-365	ICM	Demonstration of HYV Ragi(ML-365) for delayed sowing	Late Kharif 2016- 17	Н	M	L	Sunflower
		Rainfed	Rabi, 2016- 17	Sorghum	SPV- 2217		Integ rated Crop Man agem ent	<ul> <li>Seed treatment with Azatobactor, VAM, PSB @ 200g/acre</li> <li>Seed treatment with Imidachloprid @ 5 ml/kg of seed.</li> <li>Spraying of 19:19:19 at</li> </ul>	Rabi, 2016- 17	M	L	M	Maize, Sunflo wer

	•				•					· . a. a	abaia		Davanagere
								30DAS (1kg/ acre)  • Application of ZnSO <sub>4</sub> – 5kg/acre  • Spraying of chlorpyriphos 20EC- @ 2ml/l					
5	Vegetables	Irrigated	Summ er 2015- 16	Chilli		Semin is	Integ rated Crop Man agem ent	<ul> <li>Soil test based fertilizer application</li> <li>Application of bio fertilizers</li> <li>Spraying imidachloprid 17.8 SL @ 0.5 ml/L Spraying of Vegetable special</li> </ul>	Sum mer 2015- 16	L	M	M	Maize, Sunflo wer
6	Flowers	Irrigated	Kharif 2016-17	Marigold	Arka Agni		ICM	Introduction of Arka Agni marigold varieity	Kharif- 2016- 17	L	M	L	Arecanut
7	Ornamental												
8	Fruit												
		Irrigated	Rabi 2015-16	Banana	Grand naine		IDM	Integrated management of sigatoka leaf spot in Banana	Rabi 2015- 16	L	M	Н	
9	Spices and condiments												
10	Commercial	Rainfed	Kharif -2016	Cotton		Vikram BG-II	INM	<ul> <li>Maintaining Proper spacing</li> <li>Spraying Fipronil 80WG@ 0.2g/l against sucking pests</li> <li>Spraying of 1% MgSO<sub>4</sub> + 1% KNO<sub>3</sub> at 90 and 110 DAS</li> <li>Spraying of planofix (1ml/4.5 l of water) at</li> </ul>	Kharif 2016	L	M	Н	Maize

2016-17 fodder crop Jowar + Lucerne + Chogache  13 Plantation Irrigat ed 2015- 16	ICAK-Talalabalu KVK, Davallagele
and aromaticIrrigatedKharif 2016-17Mixed fodder cropNapier X + Lucerne + Chogache ICMEstablishment of fodder cafeteriaKharif 2016-17M M L Raw M L M M M M M M M M M M M M M M M M M	Yellow sticky trap for
2016-17 fodder crop Jowar + Lucerne + Chogache  13 Plantation Irrigat ed 2015- 16	
ed 2015- t ri Local crops as intercrops f 2. Use of Organic and 16 ut	cafeteria 2016- 17 Maize
fertilizers  3.Method of fertilizer application  4. Use of drainage in undrained soils  5. Management of pests and Diseases	crops as intercrops 2. Use of Organic manures and recommended dose of fertilizers 3.Method of fertilizer application 4. Use of drainage in undrained soils 5. Management of pests
Irrigat ed 2015- 16 Drumsti ck	M 1. Growing drumstick as intercrop in interspace between Coconut gardens Rabi L M M Coconu t t Street Rabi L M M M M M M M M M M M M M M M M M M M
14   Fibre	

## **5.B.** Results of Frontline Demonstrations

## **5.B.1.** Crops

Crop	Name of the	Varie ty	Hybr id	Farmi ng	No. of	Are a		Yie	ld (q/h	ıa)	% Incre	dei	*Econor monstrati		ıa)	*E	Conomic (Rs./	s of chec /ha)	k
	technology			situatio	Dem	(ha)		Dem	0	Chec	ase	Gros	Gross	Net	**	Gros	Gross	Net	**
	demonstra ted			n	0.		Н	L	A	k		S Cost	Retur n	Retur n	BC R	s Cost	Retur n	Retur n	BC R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Oilsee ds	Inegrated crop Manageme nt	-	MSF H-17	Rainfe d	65	26	17 .9	15 .3	16. 5	11.3	46.01	2739	72063	44671	2.63	2325	49202	25948	2.12
Pulses																			
Redgra m	Integrated crop manageme nt in Redgram-	BRG- 5		Rainfed	25	10	10 .8	8.1	9.4	8.5	9.57	11750	31960	20210	2.70	12500	26350	13850	2.11
	Integrated Crop Manangm ent inField Bean	НА-4	-	Rainfed	05	02	.5	18.	20. 5	17.3	15.6	16180	30750	14750	1.90	16000	25950	9950	1.62
	Integrated crop managem ent in Bengalgra m	JAKI- 9218	-	Rainfed	25	10	11 .9	9.2	10. 83	7.36	32.04	23962	67108.8	43146. 8	2.80	21954	45632	23678	2.08
Cereals																			

							1		Г	•			1		•			KVK, Davar	
Maize	Integrated		Priva	Rainfe	15	06	4	33.	38.	33.42	16.0	3570	58162	22455	1.6	3368	5013	16499	1.4
+	crop		te	d			5.	55	77			6			2	8	8		8
Redgr	managem						6												
am	ent in						5												
	Maize																		
	with																		
	emphasis																		
	on IPDM																		
	practices																		
Millet	Demonstra		-	Rainfed	25	10	31	28.	30.	25.98	13.4	3161	90855	59239	2.87	3130	74950	43646	2.3
S	tion of HYV						.3	9	03			6				4			9
	Ragi(ML- 365) for	ML- 365																	
	delayed	303																	
	sowing																		
Sorghu	Integrated			Rainfed	10	04	1	5.1	8.9	7.4	20.3	1825	27590	9340	1.5	1625	2294	6690	1.4
	Crop	CDV					2.	0	0			0			1	0	0		1
m	Managem	SPV-					7												
	ent in	2217					0												
	Sorghum																		
Veget																			
ables																			
Chilli	Integrated		Semi	Irrigate	05	02	2	12	17	162.3	10.78	4382	14385	1000	3.2	4688	1298	82976.	2.7
	Crop		nis	d			2	8.6	9.8	2		0.00	6.00	36.00	8	0.00	56.00	00	7
	Managem						0.	0	2										
	ent						7												
							0												
Flowe																			
rs																			
Orna																			
menta																			
l																			

Fruit																		KVK, Davan	
Banan	Integrated	Gran		Irrigate	05	02	4	38.	44.	33.62	31.40	846	17672	9212	2.0	8896	1345	45544	1.5
a	managem	d	_	d	0.5	02	9.	10	18	33.0∠	31.40	00	8	9212	2.0 8	0090	04	43344	1.0
a	ent of	Nain		u			3	10	10			00	0	o	0	U	04		1
	sigatoka	e					5												
	leaf spot						)												
	in Banana																		
Spices a	nd condime	nts																	
Com	Integrated		Vikra	Rainfed															
merci	Crop		m	Rumrea			2												
al	Managem		BG-II		20	08	0.	11.	15.	13.97	10.2								
	ent in		DO II		20		3	58	40	10.57	10.2	2860	75447.	4684	2.6	2930	6846	39162.	2.3
	Cotton						6					0.00	75	7.75	4	0.00	2.80	80	4
Fibre cr	Fibre crops like cotton																		
	al and arom																		
Fodde	Establish	Napi		Irrigate	10	02	3	24	28	19.8	42.2	188	28215	9415	1.5	1460	1980	5200	1.3
r	ment of	er X		d			1.	.6	.2			00				0	0		5
	fodder	+ MP					6												
	cafeteria	Charr																	
		y																	
		Jowa																	
		r +																	
		Lucer																	
		ne +																	
		Chog																	
		ache																	
Planta																			
tion																			
Areca		Chan		Irrigate	05	01	2	15	18	11.65	54,5	139	36000	2205	2.5	1203	2330	11260	1.9
nut	ICM	nagiri		d			0.	.7	.0			421-	0-00	78-00	7	96-	00-	3-00	2
		Local					5	5	0			00				00	00		

	1									1							retry Batan	- 3
Cocon	Intercropp	KDM	 Irrigate	10	04	1	13	14	8492	71.39	516	17466	1230	3.3	4411	1019	57790	2.3
ut	ing	-1	d			6	20	55	nuts/		38-	0-00	21-00	8	3-00	04-	-60	1
						9	0	5	ha		00					00		
						2	nu	nu										
						5	ts/	ts/										
						n	ha	ha										
						ut												
						s/												
						h												
						a												
Fibre						-												
Tible																		

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

Crop	Data on other parameters in relation to technology demonstrated										
	Parameter with unit	Demo	Check								
1	2	3	4								
Sunflower	Plant Height (cm)	172.2	167.8								
(NMOOP)	Head size (cm)	13.85	11.15								
	Test weight(1000 seeds)	56.28	47.15								
Field Bean	Plant Height (cm)	63.26	52.10								
	Pod Borer (%)	4.98	17.86								
	No. of Pods/plant (No.)	112.40	101.8								
Bengal gram	Plant height (cm)	29.73	25.92								
(NFSM)	Incidence of wilt (%)	4.02	11.68								
	No. of pods/plant	64.02	51.84								
Ragi (ML-365)	Plant height (cm)	114.5	103.73								
	No. of tillers/plant	7.984	6.14								
	No. of fingers/head	5.9	4.6								
	1000 seed weight (g)	26.2	25.1								
	Fodder Yield (q/ha)	53.24	49.25								
Maize+	Plant height of Maize (cm)	165.57	159.67								
Redgram	Number of rows/cob (No.)	12.93	12.53								
	Stem borer incidence in maize (%)	3.0	9.0								

Redgram	Germination (%)	83	81
(NFSM)	Plant height (cm)	160.92	152.08
	No. of branches (nos.)	5.82	5.25
	No of pods (nos.)	70.9	61.80
	Pod filling (%)	58.884	51.4
	Pod length (%)	7.10	6.70
	Wilt incidence (%)	3.0	5.0
	Pod borer incidence (%)	4.0	8.0
Banana	Incidence of leaf spot (%)	6.20	18.72
Sorghum	Size of head (cm)	21.3	19.6
	Test weight (g/1000 seed)	40.21	37.15
		7.45	12.94
Cotton	Square dropping (%)		
	Leaf reddening (%)	7.31	21.35
	Sucking pests (No.)	6.86	19.36
Chilli	Number of fruits per plant (No.)	192.76	182.32
	Incidence of leaf curl (%)	9.34	19.38
Arecanut	Number of Inflorescence/plant	7	4
	Unprocessed nuts (kg/plant)	8.97	5.8
	Processed nuts(kg/plant)	1.44	0.93
	Inflorescence Die back(%)	2.46	9.14
Coconut	Coconut yield(nuts/palm)	124	63
	Drumstick yield (pods/plant)	87	

#### **5.B.2.** Livestock and related enterprises

Type of livestock	Name of the	Bree d	No. of	No. of		Yield	(L/Day)		% Increa	den	*Econor		ay)		conomics (Rs./d		k
	technology demonstrat		Dem o	Unit s	***	Demo		Chec k if	se	Gros s	Gross Retur	Net Retur	** BC	Gross Cost	Gross Retur	Net Retur	** BC
	ed				H	L	A	any		Cost	n	n	R		n	n	R
Dairy	Integrated managemen t of dairy animals for better performance (Feeding total mixed ration)	Dairy Cow (HF- x)	01	05	12.1	8.07	9.65	8.80	9.6	117	241.25	124.25	2.06	89	130	41	1.46
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat	Balanced feeding and total deworming in small ruminants for better body weight gain	Bellar y Local	10	10	70.0 Sheep Body weig ht in kg/60 days	47.0 Sheep Body weig ht in kg/60 days	55.3 Sheep Body weig ht in kg/60 days	46.0 Sheep Body weig ht in kg/60 days	15.67	4248.	11060.	6812.	2.60	30000.	6600.	3600.	2.2
Duckery									-							-	
Others (pl.specif y)										-							

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

Crop	Data on other parameters is	n relation to technology	demonstrated	
	Parameter with unit	Demo	Check	
Dairy animals	Milk quality (CLR)	1.028	1.025	
	Incidence of mastitis	Nil	Nil	
	Repeat breeding observed	1 out of 5	2 out of 2	
Sheep and Goat	Animals attaining puberty	76% of the animals	Only 40 % of the	
	(maturity)	attained maturity	animals attained	
		during the period &	maturity & taken	
		taken Ram	Ram	

#### 5.B.3. Fisheries

Type of Breed	Name of the technology	Bree d	No. of	Units /		Yield (q/ha) % Incre		% Increas	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)				
	demonstrate		Dem	Area	I	)em	0	Chec	e	Gros	Gross	Net	**	Gros	Gross	Net	**
	d		0	$(\mathbf{m}^2)$	Н	т	A	k if		S	Retur	Retur	BC	S	Retur	Retur	BC
					11	L	A	any		Cost	n	n	R	Cost	n	n	R
Common																	
carps																	
Mussels																	
Ornamenta																	
1 fishes																	
Others																	
(pl.specify)																	

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

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

.B.4. Other enterprises

Enterprise	Name of the technology	Variety/ species	No. of Demo	Units/ Area		Yield (q		Yield (q/ha)		% Increase					*Economics of check (Rs./unit) or (Rs./m2)			
	demonstrated	species	Demo	{m <sup>2</sup> }	1	Demo Check		increase	Gross	Gross	Net	**	Gross	Gross	Net	**		
	<b>0.00.00.00.00.00.00.00.00.00.00.00.00.0</b>			( )	H	L	A	if any		Cost	Return	Return	BCR	Cost	Return	Return	BCR	
Oyster																		
mushroom																		
Button																		
mushroom																		
Vermicompost																		
Sericulture																		
Apiculture																		
Others																		
(pl.specify)																		

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)

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

#### **5.B.5.** Farm implements and machinery

Name of	Cost of	Name of the	No.	Area	Lal	Labour		Savings	*Economics of demonstration			ation	*Economics of check			
the	the	technology	of	covered	requi	requirement		in	(Rs./ha)				(Rs./ha)			
implement	implement	demonstrated	Demo	under	in Ma	in Mandays		labour								
	in Rs.			demo	Demo	Check		(Rs./ha)	Gross	Gross	Net	**	Gross	Gross	Net	**
				in ha					cost	Return	Return	BCR	Cost	Return	Return	BCR

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

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

## **5.B.6.** Extension and Training activities under FLDs:

# 1. Maize + Redgram (IPDM)

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	20	Preliminary visit for farmers selection
2	Training	01	17	Integrated agronomic practices and INM for higher yield
3	Field visit to FLD plots	05	67	Diagnostic visit to paddy plot
4	Method demonstration	02	24	Use of bioagent and spraying solution preparation

## 2. Sorghum

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	1	17	07/03/2017: Officials from Dept. of Agriculture and Farmers of Nyamathi and surrounding villages were involved
2	Farmers Training	1	08	17/10/2016: Integrated Crop Management in Sorghum
3	Media coverage	1		12/03/2017: Information of sorghum variety
4	Training for extension functionaries			
5	Method demonstrations	01	11	17/10/2016: Seed treatment with calcium chloride and biofertilizers
6	Field visits	03	21	02/01/2017, 09/02/2017, 03/03/2017

# 3. Finger Millet (ML-365)

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Group discussion	01	28	Selection of the farmers and farmers field
2	Training	02	48	30-9-2016 - Seed treatment of Biofertilisers with Finger millet 2-12-2016- Importance of Spraying of WSF in Finger Millet
3	Field visit to FLD plots	05	60	12-10-2016: Attended the sowing 25-11-2016: follow up field visit 2-12-2016: Suggested sprinkler irrigation
4	Method demonstration	02	48	25-11-2016: preparation of 19 all water soluble fertilsers spray solution and spraying 16-12-2016: Follow up field visit and suggested for spraaying of Micronutients
5.	Media Coverage – E-TV, Annadatha	03	-	16-10-2016: Janathavani 18-10-2016: Vijaya karnataka (Training on ICM practices in Finger Millet) 27-11-2106: Vijaya karnataka (Method demnstration os Spraying WSF)
6.	Field day	01	35	<b>19-01-2017</b> : Condcuted field day in colloboration with Department of Agriculture.

# 4. Bengal gram (Chick pea)

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Group	01	30	25-10-2016 :Farmer Selection for FLD
	discussion			20 10 2010 if at mer selection for 1 25
2	Training	03	54	02-12-2016: Integrated nutrient management in Bengal gram
				<b>16-12-2016</b> : Role of Funnel traps in managing pod borer
				20-12-2016: Importance of Pulse magic in Bengal gram
3	Field visit to			<b>02-12-2016</b> : Follow up field visit to FLD plots along with AO and AAO
	FLD plots			Observed the Pod borer incidence
				<b>16-12-2016</b> : Follow up field visit and suggested for light irrigation
				<b>27-12-2016</b> : Follow up field visit and counted the Pod borer insects in the
				Funnel trap
				<b>19-01-2017:</b> Officers and Elected representatives visited the plots
4	Method	02	38	<b>02-12-2016</b> : Method demonstration of Spraying of Ovicide @ 2ml/L
	demonstration			16-12-2016: Installation of Funnel Trap and Heli lure method
				demonstration
				<b>20-12-2016</b> : Pulse Magic solution preparation @ 5g/l and time and
				method of spraying
5.	Media			17-12-2016: Role of Pulse Magic in Bengalgram (Janatha vani)
	Coverage – E-			<b>30-12-2016</b> : Vijayakarnataka
	TV, Annadatha			23-01-2017: Field day -Vijayakarnataka
6.	Field day	01	62	<b>19-01-2017:</b> Conducted in collaboration with Department of Agriculture:
				Mrs Spoorthy , Deputy Director of Agriculture, Mr. Thippeswamy ,ADA,
				Harapanahalli, Mr.Nagaraju Agriculture officer, AAO and field assistants
				Mrs Manjula NFSM, Officer
				Government elcted representatives : Dr Dr .Manjunatha Zilla Panchayat
				Member ,Davangere and Mr. O.Ramanna Taluk Panchayat Member visited

# 5. Redgram (ICM)-NFSM

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	02	23	Preliminary visit for farmers selection
2	Training	01	14	Pest and disease management in redgram
3	Field visit to FLD plots	11	118	Diagnostic visit to paddy plot
4	Method demonstration	02	25	Trap installation and spraying solution preparation
5.	News paper coverage	01		Seedling treatment with biofertilizers
6.	Field day	01	57	Experience sharing of farmers

### 6. Field Bean (Hebbal Avare)

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Group discussion	01	15	<b>21-06-2016</b> : Group discussion with Department of Agriculture and Farm Facilitators of Maykonda RSK
2	Training	02	26	<b>12-06-2016</b> : Seed treatment with Chemicals and Bio fertilisers in Avare <b>28-07-2016</b> : Management of Sucking pests and Pod borer
3	Field visit to FLD plots	03	35	28-07-2016: Sucking pest and Pod borer infestation and suggested the suitable measure. 19-08-2017: Senior scientist and Head visited the plots and interacted with farmers 9-11-2016: Follow up field visit and Pod borer incidence observed
4	Method demonstration	02	25	<b>28-07-2016</b> : Method demonstration on spray solution mixture and Weed control through cycle weeder
5.	Media Coverage – E- TV, Annadatha	04	-	16-7-2016: Field Bean Demonstration (Vijay Karnataka) 30-7-2016: Follow field visit to Field bean plot at Shygale (Vijay Karnataka) 09-10-2016: Field Day in Field bean (Janatha Vani 26-10-2016: Improved production technology in pulses.
6.	Field day	01	19	<b>06-10-2016</b> : Conducted field day in collaboration with Department of Agriculture and field visit to the FLD plots

### 7. Oil seeds- Sunflower (NMOOP)

Sl. No.	Activity	No. of activities organised	Number of participants	Remarks
1	Group discussion	01	35	<b>12-06-2016</b> :Discussion with ADA and Ao harpanahalli for selcttion of villages and farmers
2	Training	03	169	30-062016-Importance of water soluble fertilsers (19 all) and management of bud necrosis at early stage 11-07-2016-Integrated weed management and sucking pest management in sunflower 08-08-2016- Integrated Pest and disease management Importance of micronutrient in improving sunflower yield
3	Field visit to FLD plots	07	249	30-06-2016 – ADA ,Ao and AAO Harapnahalli visited the FLD plots 11-06-2016, 11-07-2016, 5-08-2016, 13-08-2016- DDA,ADA and Scientists ,UAHS visited the Sunflower Plots 22-08-2016, 9-09-2016,11-09-2016, 30-09-2016- Dr Sreenath Dixit Visited the FLD plots and interacted with Farmers
4	Method demonstration	02	110	<b>30-06-2016</b> - Preparation of the spray solution of 19:19:19 <b>11-07-2016</b> - Spraying and solution preparation against sucking pests
5.	Media Coverage – E-TV, Annadatha			13-7-2016-: FLD –ICM (Vijaya karnataka) 09-08-2016- Training on Managment of diseases in sunflower (Vijaya Karnataka) 30-08-2016: Field day (Vijaya karnataka) 03-10-2016- Dr Sreenath Dixit visited the FLD sunflower plots and interacted with farmers-(Vijaya Karnataka)
6.	Field day	01	67	<b>22-08-2016</b> : Field day conducted in colloboration with department of Agricuclutre ,Harpanahalli.

## 8. Cotton

Sl. No.	Activity	No. of	Number of	Remarks
		activities	participants	
		organized		
1	Group discussion	1	43	21/10/2017: Officials From Dept. Of Agriculture, UAHS, Shimogga, Central Plant
				Quarantine Institute, Bengaluru and farmers of Kadabagere and surrounding villages
				were involved.
2	Training	2	29	11/07/2017: Integrated Nutrient Management in Cotton
	_			09/09/2017: Role of magnesium sulphate in cotton production
3	Field visit to FLD plots	2		14/09/2016: Information on leaf reddening management
	_			08/10/2016: Field visit
4	Method demonstration			
5.	Field day	03	94	11/07/2016: Spraying of Fipronil 80 WG and use yellow sticky trap for management
				of sucking pest
				13/08/2016: Spraying of Magnesium sulphate and growth regulators
				21/10/2016: Installation of pheromone trap for management of pink boll worm
		06	157	11/07/2016, 05/08/2016, 13/08/2016, 22/08/2016, 09/09/2016, 30/09/2016,
				21/10/2016

## 9. Coconut

Sl. No.	Activity	No. of activities	Number of participants	Remarks					
		organized							
1	Group discussion	1	18	For selection of farmers					
2	2 Training 1 15 7		15	Training on production technology of Drumstick					
3	Field visit to FLD plots	3		Regular follow up visit to Fld plots					
4	Method demonstration	1	15	Pinching in Drumstick					
5.	Media Coverage – E-TV,	1		News paper coverage					
	Annadatha								

## 10. Arecanut (2015-16)

Sl. No.	Activity	No. of	Number of	Remarks
		activities organized	participants	
1	Group discussion	01	15	For selection of Farmers
2	Training	02	20	To impart training on integrated management of Arecanut
3	Field visit to FLD plots	06		Regular follow up visits for imparting technologies
4	Method demonstration	02	20	Removal of Inflorescence and spry of micronutrients
5.	Media Coverage – E-TV, Annadatha	02		News Paper clippings and E tv programme on ICM in Arecanut.

## 11 Banana (IDM) -2015-16

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks				
1	Group discussion	01	14	Preliminary visit for farmers selection				
2	Training	01	05	Integrated Management of sigatoka leaf spot in banana				
3	Field visit to FLD plots	04	33	Diagnostic visit				
4	Method demonstration	03	21	Spraying solution preparation				
5.	Field day	01	11	Experience sharing				

# 12. Chilli

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days			
2	Farmers Training	1	10	09/04/2016: Integrated Crop Management in Chilli
3	Media coverage			
4	Training for extension functionaries			
5	Method demonstrations	01	10	17/05/2016: Sprying of vegetable special
6	Field visits	02	16	09/04/2016, 17/05/2016

# 13. Dairy

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks					
1	Group discussion	01	15	Discussed about feeds and feeding method; ogies adopted in the village					
2	Training	01	20	Conducted 1-day On-campus training programme on 'Balanced Feeding in Livestoc					
				and the role of fodder in profitable livestock farming.					
3	Field visit to FLD plots	02	16	Visited the FLD plots on 22-11-2016 and 21-01-2017					
4	Method demonstration	01	20	Fodder enrichment using Vitamins and minerals.					

# 14. Balanced feeding& total deworming in small Ruminants

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks				
1	Group discussion	01	16	Discussed about the small ruminants rearing system and availability of feed and				
				fodder resources in the village				
2	Training	01	14	Conducted 1-day On-campus training programme on'Balanced feeding and total				
				deworming in small ruminants on 21-01-2017				
3	Field visit to FLD plots	02	21	Visited the FLD plots on 22-11-2016 and 21-01-2017				
4	Method demonstration	01	20	Control fo ectoparasies.				

### 15 Fodder

Sl. No.	Activity	No. of	Number of					
		activities	participants					
		organized						
1	Group discussion	01	12	Discussed about feeding practices and fodder availability in the village				
2	Training	01	14	Conducted 1-day training programme on 'Balanced feeding in the dairy animalsand				
				the role of fodder in profitable dairy farming.				
3	Field visit to FLD plots	02	16	Visited FLD plots on 23-9-2016 and 21-12-2016				
4	Method demonstration	01	12	Preparation of fodder rootslips for transplanting.				

#### PART VI – DEMONSTRATIONS ON CROP HYBRIDS

**Demonstration details on crop hybrids** 

Type of	Name of the	Name of the	No. of	Are	e Yield (q/ha)				%	*Eco	nomics of (Rs.		ation	*Economics of check (Rs./ha)			
Type of Breed	technology demonstrat ed	hybri d	Dem 0	a (ha)	Н	Demo L	A	Chec k	Increa se	Gros s Cost	Gross Return	Net Return	** BC R	Gros s Cost	Gross Retur n	Net Retur n	** BC R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Cereals																	
Bajra																	
Maize	Integrated crop managemen t in Maize with emphasis on IPDM practices	Private	15	06	45.6	33.5	38.7	33.4	16.0	35706	58162	22455	1.62	3368 8	50138	16499	1.48
Paddy																	
Sorghum																	
Wheat																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Sunflower	Integrated crop Management	MSF H-17	65	26	17.9	15.3	16.5	11.3	46.01	27393	72063	44671	2.63	23255	49202	25948	2.12
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Pulses																	

Blackgram Bengalgram Bengalgram Bengalgram Bengalgram Bengalgram Bengalgram Bengalgram Bengalgram Bottle gourd Capsicum	Cusanana														10,	laraiabaia	KVK, Dava	lagere
Bengalyam   Redgram   Re	Greengram																	<b> </b>
Redgram   Commercial Commercial Continue	Blackgram																	
Vegetable crops         CROPA																		
crops         Image: Company of the property o																		
Bottle gourd	Vegetable																	
gound         Image: Capsicum of C																		
Capsicum   Cucumber   Cucumber																		
Coumber of Tomato         County																		
Coumber of Tomato         County	Capsicum																	
Chilli	Cucumber																	
Brinjal   Coltron   Crop   Management to Cotton   Crop   Crop   Management to Cotton   Crop   Crop   Crop   Crop   Management to Cotton   Crop   Crop	Tomato																	
Okra         Chra         Image: Chra to Chronic Control of Chronic Chronic Control of Chronic Chronic Control of Chronic	Chilli														•	•		
Okra         Chra         Image: Chra to Chronic Control of Chronic Chronic Control of Chronic Chronic Control of Chronic																		
Onion Potato         Image: Corp Managemen Into Cotton         Vikar Managemen Into Cotton         Image: Cotton Managemen Into Cotton Managemen Into Cotton         Image: Cotton Managemen Into Cotton	Okra																	
Potato   Field bean   Field b	Onion																	
Field bean																		
Commercial crops																		
al crops         Image: Compute of																		
Sugarcane         Image: Coconut of the company o																		
Coconut   Coconut   Coconut   Cotton   Integrated   Crop   m   BG-II   tin Cotton   Cotton   Total   Coconus   Coconus   Coconus   Coconus   Coconus   Coconus   Crop   m   BG-II   tin Cotton   Coconus   C																		
Cotton         Integrated Crop (Crop Managemen It in Cotton)         Vikar (Bt)         20         8         20.3 b         11.5 b         15.4 b         13.9 b         10.2 b         2860 b         75447.         46847.         2.6 b         29300 b         68462.8 b         13162.8 b         2.3 b           Managemen It in Cotton         BG-II (Bt)         4         6         8         4         7         10.2 b         2860 b         75447.         46847. b         2.6 b         29300 b         68462.8 b         13162.8 b         2.3 b           Total         BG-II (Bt)         1         1         1         1         1         1         1         1         2         2         2         3         4																		
Crop   m   BG-II   (Bt)		Integrated	Vikar	20	8	20.3	11.5	15.4	13.9	10.2	2860	75447.	46847.	2.6	29300	68462.8	13162.8	2.3
Managemen   BG-II   (Bt)		Crop																
Total         (Bt)         (Bt) <t< td=""><td></td><td>Managemen</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Managemen																
Total         Image: Composition of the composition of th		t in Cotton																
Fodder crops Maize (Fodder) Sorghum (Fodder)	Total		` /															
crops   <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>						1												
Maize (Fodder) Sorghum (Fodder)																		
(Fodder) Sorghum (Fodder)																		
Sorghum (Fodder)																		
(Fodder)																		
	(Fodder)																	

#### **PART VII. TRAINING**

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

	No. of				No	of Partici	pants			
Area of training	Courses		General			SC/ST	_		<b>Grand Tot</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
Crop Production										
Weed Management										1
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										-
Seed production										
Nursery management										
Integrated Crop Management	1	16	0	16	2	0	2	18	0	18
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others										
a) Seed treatment	1	12	0	12	2	0	2	14	0	14
b) Bio fuel production and use of bioproducts										-
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										

					1	1		ICAR-1a	<u>ralabalu KVI</u>	K <u>,</u> Davanagei
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others a)Kitchen garden and terrace gardening	2	1	62	63	53	0	53	54	62	116
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										
Plant propagation techniques										
Others										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others a)										
d) Plantation crops										
Production and Management technology	2	52	0	52	7	0	7	59	0	59
Processing and value addition										
Others 1. Dryland horticulture										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
	L		1		1	l		1	1	

	ı		1	1	1	1	1	ICAR-Tar	alabalu KVK	<u>, Davanagere</u>
Others										
f) Spices										
Production and Management technology										
Processing and value addition										
Others										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	1	21	12	33	3	0	3	24	12	36
Production and use of organic inputs	1	36	1	37	0	0	0	36	1	37
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others										
Livestock Production and Management										
Dairy Management	2	10	24	34	2	0	2	12	24	36
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	18	0	18	5	0	5	23	0	23
Animal Disease Management										
		•	•	•		•	•		•	

Feed and Fodder technology	1	12	0	12	1	0	1	13	0	Davanagere 13
Production of quality animal products										
Others: a) Preparation of vermicompost										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
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										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others –Production Technology of Mushroom	1	56	14	70	15	4	19	71	18	89
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others										
Plant Protection										
Integrated Pest Management										

Integrated Disease Management								10/11/101	diabaia ittity	Davanagere
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others a) Apiculture										
Fisheries										
Integrated fish farming	1	6	0	6	0	0	0	6	0	6
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										
Others -1. Recent technologies in aquaculture										
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									alabala ittiq	3
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others –Bio-gas production										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (PUC students orientation)	2	172	100	272				172	100	272
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	412	213	625	90	4	94	502	217	719

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

	No. of				No	of Partici	pants			
Area of training	Courses		General			SC/ST			<b>Grand Tot</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
Crop Production										
Weed Management	2	82	0	82	16	0	16	98	0	98
Resource Conservation Technologies										ļ
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	5	71	0	71	32		32	103		103
Soil and Water Conservation										
Integrated Nutrient Management	3	59	0	59	6	0	6	65	0	65
Production of organic inputs										
Others a) seed treatment	3	112	0	112	7	0	7	119	0	119
c) Mechanized transplanting in paddy										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	7	0	7	2	0	2	9	0	9
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation Other (Kitchen and Terrace garden	1	33	19	52	0	0	0	33	19	52

1	2	3	4	5	6	7	8	9	10	11
b) Fruits			<del>-</del>			-				
Training and Pruning	2	14	0	17	13	0	13	30	0	30
Layout and Management of Orchards										
Cultivation of Fruit	1	12	0	12	0	0	0	12	0	12
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others: a) Integrated nutrient management in Mango	1	13	0	13	0	0	0	13	0	13
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others										
d) Plantation crops										
Production and Management technology	1	22	0	22	2	0	2	24	0	24
Processing and value addition										
Others										
a) Intercropping in coconut and arecanut										
b) Green manuring										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others										

1	2	3	4	5	6	7	8	9	10	11
f) Spices										
Production and Management technology										
Processing and value addition										
Others										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	3	41	0	41	5	0	5	46	0	46
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										

1	2	3	4	5	6	7	8	9	10	11
Feed and Fodder technology	1	15	0	15	3	0	3	18	0	18
Production of quality animal products										
Others										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
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										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others										
Plant Protection										

1	2	3	4	5	6	7	8	9	10	11
Integrated Pest Management	4	50	0	58	22	0	22	80	0	80
Integrated Disease Management	3	50	0	50	17	0	17	67	0	67
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others										
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										
Others										
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										

1	2	3	4	5	6	7	8	9	10	11
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 –FOCT										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	31	592	19	611	125	0	125	717	19	736

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

	No. of				No.	of Particip	pants			
Area of training	Courses		General			SC/ST			Grand Tota	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	3	4	5	6	7	8	9	10	11
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	16	11	27	0	1	1	16	12	38
Seed production	1	12	12	24	0	0	0	12	12	24
Production of organic inputs	1	12	12	24	0	U	0	12	12	24
Planting material production										
Vermi-culture										<del> </del>
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										

1	2	3	4	5	6	7	8	9	10	11
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										
Others.										
I. Role of Rural Youth in Agriculture	1	43	32	75	12	6	18	55	38	93
II. Ex- trainees sammelan for FOCT trainees										
III. Soil and water conservation										
TOTAL	3	71	55	126	12	7	19	83	62	145

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

	No. of				No. o	of Particij	pants			
Area of training	Courses		General	1		SC/ST	T		Frand Tota	
	Courses	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 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					
TOTAL					

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

	NI. G				No. o	of Partici	pants			
Area of training	No. of Courses		General			SC/ST	_	G	Frand Tot	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	36	1	37	7	0	7	43	1	44
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	46	0	46	2	0	2	48	0	48
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	01	19	-	19	05	1	05	24	-	24
Household food security										
Any other	1	19	0	19	9	0	9	28	0	28
a) Safe use of pesticide										
b) Technology transfer mechanism in Animal science										

c) Biofuel training to gram panchayath officials and elected members										
d ) Management of Horticulture crops	1	28	0	28	6	1	7	34	1	35
e) Post harvest technologies	1	14	5	19	2	0	2	16	5	21
Total	6	162	6	168	31	1	32	193	7	200

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

	No of				No. o	f Particip	ants			
Area of training	No. of Courses		General			SC/ST		(	Grand Tot	al
	Courses	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										
Household food security						_			_	_
Any other a) Integrated farming system										
Total										

# 7.G. Sponsored training programmes conducted

		No. of				No. o	of Particij	pants			
S.No.	Area of training	Courses		General			SC/ST		G	Frand Tot	al
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12
1	Crop production and management										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Dryland horticulture	3	98	3	101	12	0	2	110	3	113
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	Others:										
	a) Kitchan and Terrace Gardening	4	17	364	381	36	21	57	53	385	438
	b)Vegetables seed production	1	27	0	27	18	0	18	45	0	45
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others										
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a.	Animal Nutrition Management	1	24	0	24	0	0	0	24	0	24
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others: Livestock based employment opportunity				-						
10.f	Profitable dairying through group action										
10.g	Integrated dairying and vermicompost										

1	2	3	4	5	6	7	8	9	10	11	12
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others: 1.Sandalwood and other forestry technologies	1	82	20	102	8	4	12	10	24	114
	2. Protection of Plant Varieties and Farmers Right Act										
	Total	10	248	387	635	74	25	99	322	412	734

#### Details of sponsoring agencies involved

- Department of Horticulture, Davanagere.
   Institute of Wood Science and Technology, Bengaluru.
- 3. IAT, Davanagere
- 4. NFDB, Hyderabad.
- 5. Suvarna Agro Technology
- 6. Sujala-III, KWDP-II, Department of Horticulture, Davanagere
- 7. Department of Horticulture, Davanagere.
- 8. Bayer crop Science

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

		No. of				No.	of Particip	ants			
S.No.	Area of training	Courses		General			SC/ST		(	<b>Grand Tota</b>	l
		Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12
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										
2	Post harvest technology and value addition										
2.a.	Value addition										
2.b.	Others										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture	2	39	3	43	10	1	11	49	4	53
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others										
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										<u> </u>
4.h.	Nursery, grafting etc.										

1	2	3	4	5	6	7	8	9	10	11	12
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others: Coconut climbing and plant protection										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others										
	Grand Total	2	39	3	42	10	1	11	49	4	53

### PART VIII – EXTENSION ACTIVITIES

### **Extension Programmes (including extension activities undertaken in FLD programmes)**

Activities	No. of Activities	No. of Participants	
		No. of Farmers	No. Extension Personnel
Field Day	11	475	47
Animal health campaign	02	166 Animal treated	
Kisan Mela	01	50000	200
Exhibition	05	350270	664
Film Show	02	15	22
Method Demonstrations	32	919	119
Farmers Seminar	05	522	27
Farm Science Club (DDFA)	06	84	07
Group meetings			
Lectures delivered as resource persons	92	9986	1064
Newspaper coverage	85		
Radio talks	09		
TV talks	03		
Popular articles	08		
Scientific visit to farmers field	185	2196	376
Advisory over phone	574	574	
Farmers visit to KVK	2020	3767	52
Diagnostic visits	39	217	68
Exposure visits	02	53	09
Ex-trainees Sammelan		_	
Soil test campaigns	01	25	
Meeting/workshops with extension offiicals	08		838
Celebration of Days	08	1145	56
Kisan Ghosti	09	9000	50
KMAS	30	7000	

### PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers
Cereals (crop wise)						
Oilseeds						
Pulses						
Commercial crops						
Vegetables	Drumstick	KDM-1 (Bhagya)	-	1.575	40762.50	11
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Green manure						
Others						
Total				1.575	40762.50	11

### 9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers
1	2	3	4	5	6	7
Commercial						
Vegetable seedlings	Drumstick	KDM-1 (Bhagya)	-	15,087	1,81,044.00	48
Fruits	Mango	Alphanso	-	1,176	43,800.00	07
Ornamental plants						
Medicinal and Aromatic						
Plantation	Arecanut	Channagiri Local	-	5,005	1,25,125.00	17
	Coconut	Arasikere tall	-	3,468	147779.999	21
Spices						
Tuber			•			

1	2	3	4	5	6	7
Fodder slip	Guinea	BG-9	-	1100	550	02
Fodder cuttings	Napier	DHN-6	-	21750	350	15
Forest Species						
Total				27586	4,98,648.99	79

### 9.C. Production of Bio-Products

<b>Bio Products</b>	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers
Bio Fertilizers	Azolla	40	800	16
Bio-pesticide				
Bio-fungicide	Trichoderma	31	3720	05
Bio Agents	Eathworm	58.1	17430	23
Others	Vermicompost	19037	145949.829	185
	Banana Special	2562	448350	496
	Vegetable Special			
	Milk	9510.5	323357	302
	Pseudomonas flurescence			
Total		31,238.6	939606.829	1027

#### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers
1	2	3	4	5
Dairy animals				
Cows				
Buffaloes				
Calves	HF x	04	10000.00	2

1	2	3	4	5
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others				

Piggery				
Piglet				
Others				
Fisheries				
Fingerlings				
Ornamental fishes	Guppies, Mollies, Sword tails	3161	30058	66
Total		3169	50058	70

# PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

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

(A) KVK News Letter: Nil

(B) Literature developed/published

Item	Title	Authors name	Number
1	2	3	4
Research papers	'Yield gap analysis of finger millet through Frontline Demonstration in	Mr. Raghuraja J.	
	Davanagee district of Karnataka'	Dr. Devaraja T.N.	
	Published in 'International Journal of Research in Economics and Social	Mr. Mallikarjuna B.O.	
	Science' (IIRESS)	Mr. Prasannakumara N.	
	'Plant growth promoting potential and phylogenetic characteristics of a	Chidanandamurthy Thippeswamy	
	lichenized nitrogen fixing bacterium, Enterobactercloacae' in Journal of Basic	Swamy	
	Microbiology.	Devaraja Gayathri	
		Thimmalapura Neelakantaiah	
		Devaraja MandarBandekar	
		Stecy Elvira D'souza	
		Ram Murti Meena and Nagappa	
		Ramaiah	
	'Role of Cyanolichens in biological Nitrogen fixation' in Anegewandten	Devaraja Gayathri	
	Biologie Forschung	Swamy C T	
		Devaraja T N	

Technical reports			
News letters			
Popular articles	Mostsopaya-Sollegalige apaya-In Negila Midtha, UAHS, Shivamogga	Dr. Devaraja T.N.	
	Anthara Belegalige thogari beledhu labha padedhu raitha- in Siri Sambrudhi, BIEF, Tiptur.	Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	
	Nivrutha Bank Adhikariya Krishiya Kushi-in Negila Miditha, UAHS, Shivamogga	Mr. Basavanagowda M.G. Dr. Devaraja T.N.	
	'Agribusiness for sustainable farm income'-Paper presented in International Conference on 'Advances in collaborative Research' organized by University of Mysore, Mysore.	Mr. Raghuraja J. Dr. Devaraja T.N.	
	'Mulching wins Bonus crops in Dryland Farming' and 'Redgram (BRG-2) medium duration and drought tolerant suitable for intercropping in Hybrid Maize under rainfed'. Paper presented in National Workshop on 'Mainstreaming Climate Change and Adoption in Agriculture and Allied Sector' by MANAGE, Hyderabad.	Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	
	Successful training and demonstration to promote mechanization in Rice transplanting - In Social Science Abstractrs, Peoples' Health and quality of Life in India, oraganized by Indian Academy of Social Sciences and University of Mysore.	Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	-
	Assessement of various methods of urea application in Paddy with our emphasis on Nitrogen use efficiency In Social Science Abstractrs, Peoples' Health and quality of Life in India, oraganized by Indian Academy of Social Sciences and University of Mysore.	Mr. Sannagoudra H.M. Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	-
	Assessment of micronutrient application in Banana to increases production. In Social Science Abstractrs, Peoples' Health and quality of Life in India, oraganized by Indian Academy of Social Sciences and University of Mysore.	Mr. Basavanagouda M.G. Dr. Devaraja T.N.	-
	Rain water harvesting structures-Conserving the soil and moisture in climatically vullorable village. In XIII Agricultural Science Cogress-2017 organized by UAS, Bengaluru and NAAS, New Delhi.	Dr. Devaraja T.N. Mr. Mallikarjuna B.O. Dr. Jayadevappa G.K.	-
	Improved Crop production Technologies to tackle the Climatic Uulnarability	Dr. Devaraja T.N.	-

	ICAR-Tar	alabalu KVK, Dav
in Siddanur, NICRA village. In XIII Agricultural Science Cogress-2017 organized by UAS, Bengaluru and	Mr. Mallikarjuna B.O. Dr. Jayadevappa G.K.	
NAAS, New Delhi.		
Mutigating Climatic varaties in animal Husbandary practices at NIcRA village Siddanuru.  In XIII Agricultural Science Cogress-2017 organized by UAS, Bengaluru and NAAS, New Delhi.	Dr. Jayadevappa G.K. Dr. Devaraja T.N. Mr. Mallikarjuna B.O.	-
Adikeyalli Hidimundige Nvenathe Mathu Nirvahane-Jantha Vani.	Mr. Basavanagowda M.G. Mr. Mallikarjuna B.O.	-
Assesment of performance of different groundnut varieties in Davangere district of Karnataka In Abstracts 2 <sup>nd</sup> KVK symposium, organized by TNAU and ATARI	Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	-
Effect of feeding Azolla on the performance of Dairy Animals In Abstracts 2 <sup>nd</sup> KVK symposium, organized by TNAU and ATARI	Dr. Jayadevappa G.K. Dr. Devaraja T.N.	-
Assessment of different methods of planting in Banana var: Grandnaine in Davanagere district of Karnataka	Mr. Basavanagowda M.G Dr. Devaraja T.N.	-
Impact of KVK techolgoies in Agriculture through up-Scaling in Davanagere district of Karnataka.  In Abstracts 2 <sup>nd</sup> KVK symposium, organized by TNAU and ATARI	Mr. Raghuraja J. Dr. Devaraja T.N. Mr. Mallikarjuna B.O. Mr Prasannakumara N. Mr Sannagoudra H.M.	-
Dharmikaatheya Durbalake Deshada Vibajaneya Mula- in Janathavani	Dr. Devaraja T.N.	-
Samayakke thakka Sabhe utada jothe uppirakay' –in Janathavani	Mr. Mallikarjuna B.O. Dr. Devaraja T.N.	-
Onabhuviyallu Kirudhanyagala Siribhagya: Baradallu raithara Badhukige vara.		

	Rostra Prashasti Vijetha Raitha Sri Anjaneya- in Krishi Munnede, UAS (Dharwad).	Mr. Raghuraja J. Dr. Devaraja T.N.	-
	Havamana and Viparithyadalli Adike Thotagala Nirvahane in Negila Miditha, UAHS. Shivamogga	Mr. Basavanagowda M.G Dr. Devaraja T.N.	-
1	2	3	4
Extension literature	Training Manual on Fisheires	Dr Devaraja T.N.	500
	Conversion of Kitchen waste to compost	Dr. Shanta Bhat, Dr.G.K Jayadevappa & Dr. Devaraja T.N.	1000
Radio Talk	Diseases of Dairy Animals during rainy season and their insurance coverage-AIR, Badravati	Dr Jayadevappa G.K.	
	Drough Management Strategies, AIR-Badravati	Mr Mallikarjuna B.O.	
	Importance of minor millet-AIR, Chitradurga	Mr. Vijayakumara S.B.	
	Improved parduction technology in pulses-AIR, Chitradurga	Mr Mallikarjuna B.O.	
	Scientific management of Dairy animals during summer-AIR, Chitradurga	Dr Jayadevappa G.K.	
	Role of Fisheries in IFS and Fish as nutritive food –AIR, Chitradurga	Dr Devaraja T.N.	
	Integrated Nutreint Management –AIR, Chitradurga	Mr Sannagoudra H.M.	
	Production Technolgoy in Pepper-AIR, Chitradurga	Mr Basavanagowda M.G.	
	Integrated Pest and Disease Management in Redgram-AIR, Chitradurga	Mr. Prasannakuamra N.P.	
	• Fodder management for livestock during scarcity period. (AIR-Bhadravathi, 6-50 PM,)	Dr. Jayadevappa G.K.	
	Management of Dairy Animals during summer period (AIR-Bhadravathi)	Dr. Jayadevappa G.K.	
TV Programmes	Integrated Crop Management in Sunflower under rainfed-E-TV	Mr Mallikarjuna B.O.	
	Crop Management Practices during Dryspell in maize-E-TV	Mr Mallikarjuna B.O.	
	Benefits of Neem coated urea-E-TV	Mr Sannagoudra H.M.	
	Terace Gardenning-DD, Chandana	Mr Basavanagowda M.G.	

S. No	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1			

10.C. Success Story: NIL

#### 10. D. Details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year:

- a) **Avenue planting of Drumstick plants:** In KVK farm has attracted many farmers and citizens alike. This earned a substantial income to Revolving Fund of KVK.
- b) Saturday Organic Bazzar (Saavayava Shanivara Santhe): Weekly sandy held at TKVK on every Saturday helped organic farmers and the enthusiastic consumers of organic produce as it is made available next door.
- c) Kasa Rasa Abhiyana: Campagin started for urban waste bio degradation in colloboratin with women organization in Davanagere.
- d) **Orientation of PU students:** Conducted orientation for 2<sup>nd</sup> year PU pass students to motivate them to persue agriculture as education. (200 students attended the orientation programme among them 38 students got admission in UAS)

#### 10. E. Details of indigenous technology practiced by the farmer in the KVK operational area which can be considered for technology:

#### An Ecofriendly Indigenous Innovative Bird Scare Device – Developed by Sri M.B. Ravi, Siddanuru village, Davanagere tq.

It is an ecofriendly device. It does not harm the birds but scare them away from the crop field. Otherwise, farmers are advised to use bird nets which catch the birds and kill them. Killing can easily be avoided by adopting this simple sound making device. It can even scare squirrels, monkeys and pigs. However, this needs to further verified. Appears to be a new type looking at its cost and efficiency. This divce can be used for all vegetables and fruits crops etc and price fixed at Rs. 2000/- per divce.

#### 10.F. Indicate the specific training need analysis tools/methodology followed: NIL

#### 10.G. Field activities

i. Number of villages adopted : 06 (Doddabbigere, Katenahalli, belludi, Rameshwara, Hallikdere, Parushurampura)

ii. No. of farm families selected : 1933

iii. No. of survey/PRA conducted: 6-Basic information collected trhough surveys and secondary information)

#### 10. H. Activities of Soil and Water Testing Laboratory

**Status of establishment of Lab** : Established

1. Year of establishment : 2011 (April)

2. List of equipments purchased with amount

Sl. No.	Name of the Equipment	Qty.	Cost (Rs.)
1	Digital conductivity meter	01	12,860-00
2	Digital pH meter	01	11,033-00
3	Flame photometer	01	48,375-00
4.	Spectrophotometer	01	42,570-00
5.	Macro Block digestion system: KIL 08 L	01	96,212-00
6.	Distillation system KJELO DIST EAS VA	01	1,77,268-00
7.	Digital Burette Titration system	01	53,212-00
8.	Quartz single distillation model with 4 l/h capacity	01	31,482-00
9.	Quartz double distillation unit with 1.5 l/h capacity	01	64,130-00
10.	Hot air oven	01	29,786-00
11.	Hot plate Rectangular	01	6,784-00
12.	Water bath	01	5,724-00
13.	Digital Analytical balance capacity 210 g	01	69,960-00
14.	Table top balance capacity 10 kg	01	6,890-00
15.	Heating mantle capacity 250 ml	01	1,908-00
16.	Kent water purifier	01	16,500-00
	Total	15	6,74,694-00

details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)	Soil Health Card Issued	
Soil Samples	4770	3870	2298	441281	1254	
Water Samples	3512	2543	2276	165850		
Plant samples						
Manure samples	5	3	2	500		
Total	8282	6413	4576	607631	1254	

• There are 810 villages in the district. Samples from adjacent district villages is also included. The number of villages shown is including the repetition of same villages.

### Details of samples analyzed during the 2016-17:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)	Soil Health Card Issued
Soil Samples	1254	1024	786	123300	1254
Water Samples	1140	905	719	57000	
Plant samples					
Manure samples	-				

• There are 810 villages in the district. Samples from adjacent district villages is also included. The number of villages shown is including the repetition of same villages.

#### 10.I. Technology Week celebration during 2016-17: Yes

**Period of observing Technology Week**: From 23-12-2016 to 26-12-2016

**Total number of farmers participated** : 208

Total number of agencies involved : 04 (Department of Agriculture, Horticulture, AH & VS, Krishika Samaja).

Number of demonstrations visited by the farmers: 15

#### **Other Details**

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	1	114	
Lectures organized	2	94	Terace garden and Kitchen garden
Exhibition	1	114	
Film show	3	208	
Fair			
Farm Visit	3	208	Instructional farm technologies
Diagnostic Practical			
Supply of Literature (No.)	2	176	Kitchen and terrace garden and Development Department schemes book
Supply of Seed (q)			
Supply of Planting materials (No.)		_	

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited			
the technology week			
Other	-	Ī	-

### 10. J. Interventions on drought mitigation (if the KVK included in this special programme): Not included.

### A. Introduction of alternate crops/varieties:

State	Crops/cultivars	Area (ha)	Number of beneficiaries		
-	-	-	-		

### B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses (under NFSM)		
Cereals		
Vegetable crops		
Tuber crops		
Total		

### C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
Karnataka			
Total			

### D. Animal health camps organized

State	Number of camps	No. of animals	No.of farmers
Karnataka			
Total			

### E. Seed distribution in drought hit states: NIL

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

### F. Large scale adoption of resource conservation technologies : NIL

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total			

### G. Awareness campaign

State	Meet	ings	Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of	No.	No. of	No.	No. of	No.	No. of	No.	No. of	No.	No. of
		farmers		farmers		farmers		farmers		farmers		farmers
Karnataka												
Total												

#### 11.A. Impact of KVK activities: Nil

#### 11.B. Cases of large scale adoption: Banana Special:

#### 1. Situation:

Banana being on important fruit crop of the district, and production area is continuously increasing due to Comprehensive Horticulture Development Programme (CHD) and other schemes. However, productivity (16.29 ton/ha) was still not near to potential. Pest and diseases incidence, nutritional deficiencies had become serious threats. Fruit cracking due to nutritional deficiencies is rampant.

#### 2. Plan, Implementation and Support:

To address the identified problems ICAR-Krishi Vigyan Kendra in collaboration with department of Horticulture planned few strategic interventions to tackle the situation. They were frontline demonstrations, on farm trials, trainings, method demonstration, field day etc. Villages selected for CHD implementation were indentified for demonstrations, Orientation and regular trainings were planned and implemented. Banana special, a key critical input to mitigate nutritional issues came in very handy. It was the technology from ICAR-Indian Institute of Horticulture Research (IIHR), Hesaraghatta, Benglauru. KVK bought this technology and started producing the mixture at farm level with quality standards.

Farmers were informed about Banana special and its benefits. Department of Horticulture gave full support to Krishi Vigyan Kendra and its interactions. Field results had evidently shown the role of Banana special in enhancing the productivity and production. Newspaper, TV/Radio, magazine/articles, ICAR- Agricultural Technology Application Research Institute, Benglauru publications acknowledged the significance of Banana special. Repeated users and new users were the indicators of product's success.

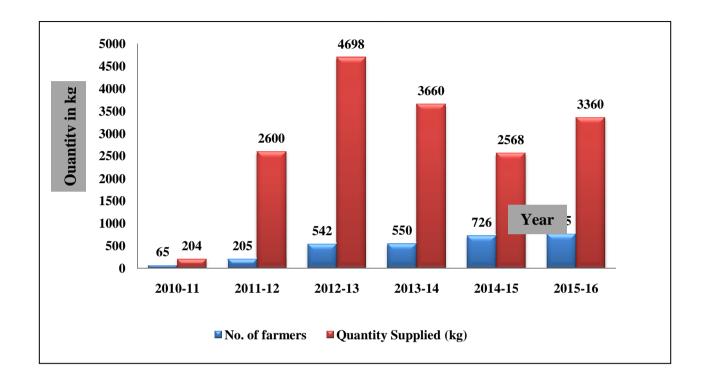
#### 3. Out Put:

ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere, had undertaken frontline demonstrations on foliar application of Banana special and the spray schedule was 6 sprays at 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup>, month after planting. The fifth spray on emergence of bunch and sixth spray one month after bunch emergence. The spray concentration is 5 g/L and for better results of spray, one shampoo sachet and one lemon liquid should be mixed in 20 L of spray solution.

### **Table 1: Details of Frontline Demonstrations on Banana special.**

Sl.	Year	No. of	Area	Variety	Demons	stration	Ch	eck	% on
No.		farmers	(ha.)		Yield	B:C	Yield	B:C	increase
					(t/ha)	Ratio	(t/ha)	Ratio	in yield
1	2008-09	5	1	Yelakki	28.66	2.10	22.25	1.83	28.80
2	2009-10	6	4	Grandnaine	53.39	2.65	40.01	2.27	33.44
3	2009-10	6	4	Yelakki	22.59	2.67	16.22	2.31	39.27
4	2010-11	11	4	Yelakki	17.08	2.3	10.72	1.64	59.32
5	2011-12	10	4	Grandnaine	61.80	2.97	48.38	2.48	27.74
6	2012-13	25	0.4	Yelakki	21.0	3.69	16.4	2.78	28.04
	(FFS)								
Total 63 17.4									

The year wise results of frontline demonstration show a significant increase in yield levels of Banana (In both yelakki and Grandnaine varieties) compared to check plots. The horizontal spread of technology can be seen through table-2 where in during 2010-11 (first year of banana special production in KVK) only 65 farmers used the technology while in 6<sup>th</sup> year, in 2015-16 it spread to 765 farmers. Among the Banana special users, there are repeat users as well as new users every year owing to benefits derived through the use of Banana special.



Banana growers in and around the districts have utilized this technology and gave positive feed back on the same. The KVKs from neighbouring districts namely Chikkamagalur, Haveri, Gadag, Bellary, Dharwad and Bengaluru Rural Districts purchased banana special and distributed to farmers. This technology was published in newspaper articles, farm magazines and broadcasted in Radio and Television programmes. Krishi Vigyan Kendra has taken up comprehensive technologies related to the improvement of production and productivity in Banana as 'Flagship Programme'.

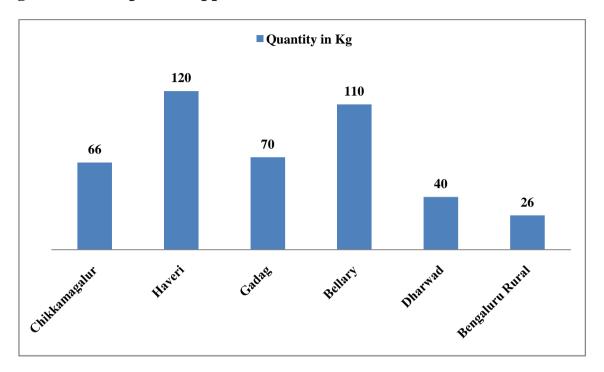


Fig-2: Banana Special Supplied to Different Districts in Karnataka

### Following 2 cases reveal impact of banana special at farmers level:

- 1. Mr. Lakshmikanth of Chikkadevarahalli village of Channagiri taluk who adopted Banana special technology during 2011-12 in Grandnaine and yelakki varieties realized 13.38 t/ha. and 6.28 t/ha average yield and corresponding net income was Rs. 93,360/ ha. and Rs. 94,200/ha., respectively.
- 2. Mr. Gopal Naik of Basavapatna village in Channagiri taluk adopted this technology in 3.6 ha. (yelakki variety). The average yield was 13.88 t/ha and sold at Rs. 50/kg. The gross return was Rs. 25,00,000/- (net return Rs. 15,00,000). Krishi Vigyan Kendra in collaboration with Department of Horticulture and University of Agricultural and Horticultural sciences, Shivamogga had organized the Field Day in this farm to popularize technology on 01-07-2016.

#### Other realized indirect benefits of Banana Speical usage are as follows:

• **Reduced cost of cultivation:** Due to proper nutrient management through spraying of Banana special, farmers can reduce the quantity of other fertilizers (about 10%).

- **Increased Nutrient Use Efficiency:** Spraying of banana special can increase the uptake of other externally applied fertilizers (about 14% enhanced nutrient use efficiency was observed in frontline demonstration plots.
- **Reduced pests and diseases:** By providing proper nutrition especially micronutrient can increase resistance to pest and disease in plant system (Graham & Webb, 1991).
- Good quality fruits: Providing micronutrient through banana special farmers can get good quality fruits (increased bunches with uniform size of fingers) which fetches more price in market. Fruits shelf life will also increase, increased bunch weight and reduced fruit croacking.
- **Higher Total soluble sugar** ( **TSS**) **content in the fruits:** Magnesium is also one of the component in Banana special and it is also a main component in chlorophyll. The increased photosynthesis in plants by providing Mg ultimately leads to higher total soluble sugar in fruits.

#### 5. Impact:

In the Arkere cluster of Honnali taluk in Davanagere district formed banana growers group comprising of 120 farmers under comprehensive Horticulture Development programme (CHDP). Each member of the group used banana special technology and formation of group helped them to realize better prices in market by avoiding middlemen.

Frontline Demonstrations on Foliar application of banana special in Siddanuru village of Davanagere taluk resulted in formation of 'Siddanur Banana growers Association' in order to help themselves in production and marketing of banana. The group consists of 15 members having 25 ha. banana recorded 12 % increase in yield. Additional income realized became the initial investment for the pomegranate crop which was introduced in the village subsequently.

#### **Reference:**

- 1. Annual reports, 2015-16, Department of Horticulture, Davanagere.
- 2. Annual reports, 2008 to 2016, ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere.
- 3. Graham D.R and Webb M.J., 1991, Micronutrients and disease resistance and tolerance in plants in: Mortvedt j.J., Cox F.R. Shuman L.M., Ulelch R.M. (Eds), Micronutrients in agriculture, 2<sup>nd</sup> Edition, *Soil Science Society of America*, Inc. Madison, Wisconsin, USA.329-370
- 4. Outscaling of Agricultural Technologies Experiences of Krishi Vigyan Kendras-IIHR special, 2013, Krishi Vigyan Kendra-MYRADA, Erode.14-15.

#### 11.C. Details of impact analysis of KVK activities carried out during the reporting period: NIL

# PART XII - LINKAGES

### 12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Natioanl Innovation Foundation –Inida, Ahmadabad	State level Innovative Farmers Conference
Institute of wood science and Technolgoy,	Trainings
Bengaluru	
Institute of Agro forestry Farmers and Technocretes,	Trainings
Bengaluru	
National Fishereis Development Baord, Hyderabad	Vocational Trainings
UAHS, Shivamogga	Technologies, trainings
IIHR, Bengaluru	Technologies
UAS (Bengaluru), UAS (Dharwad), UAS (Raichur),	Technologies
KUAFSU (B), UHS (Bagalkot)	
Department of Agriculture, Horticulture, AH & VS,	Trainings
Dept of Animal Husbandry & Veterinary	Conducting Animal health Camps and Extension Functionaries Training programmes
Science, Davanagere	
Techno Serve co, Davanagere	Conucting animal Health Camps ,Training programmes and Method Demonstrations
Virbac Pharmaceuticals,Pune	Coducting Technical Seminars and Animal Health Camps
Department of Horticulture	Diagostic field visits, Trainings
KWDP-II,Sujala III, Department of Horticulture	Diagostic field visits, Trainings

#### 12.B. List Externally Funded Projects / schemes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
NICRA	Demonstrations, Training, NRM	17-01-2011	ICAR	4,08,488-00
	works, Exposure visits and Climate			
	Resilient Technologies			
Biofuel Information and Demonstration Centre	Training, Awareness campaign	22-3-2011	Karanataka State	
	Demonstration, Exhibitions and		Biofuel Development	6,00,000-00
	Research		Boad, GoK	
Sujala –III, KWDP-II	Institutional Training	Janury 2017	Department of	80,000-00
			Horticulture	
Kitchen and Terrace garden	Training	Janury 2017	Department of	60,000,00
			Horticulture	60,000-00

#### 12. C. Details of linkage with ATMA

#### a) Is ATMA implemented in your district (Yes/ No) : Yes

Visited villages and collected basic data for preparation of SREP

#### Coordination activities between KVK and ATMA during 2016-17

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-			
02	Research projects	-			
03	Training programmes	-			
04	Demonstrations	-			
05	<b>Extension Programmes</b>	-			
06	Publications	-			
07	Other Activities (Pl.				
	specify)				

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

S. N	. Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
01	Training	Resource person			

#### 12.E. Nature of linkage with National Fisheries Development Board :

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Trainings	2 vacational trainings on			
		Fisheries			

### 12.F. Details of linkage with RKVY: NIL

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

#### 12. G Kisan Mobile Advisory Services

Month	Message Type	No. of farmers	Crop	Livestock	Weather	Marketing	Awareness	Other Enterprise	Marketing	Total
		covered								
April	Text Message	-					-			-
May	Text Message	80					01			01
June	Text Message	211					01			01
July	Text Message	1993					03			03
October	Text Message	6993					01			01
August	Text Message	6993					03			09
September	Text Message	7001	04				02	01	01	04
November	Text Message	7062	02				03			03
December	Text Message	6985					-	02		02
January	Text Message	6985					03			03
February	Text Message	6944					02			02
March		6995					01			01
	Total		06				20	03	01	30

<sup>❖</sup> A total of 7052 farmers registered for KMAS. Depending on the message category, farmers are receving the messages.

### PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year of	Area	D	etails of production		Amou	unt (Rs.)	
Sl. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty. (kg)	Cost of inputs	Gross income	Remarks
1.	Banana Special	2011-12		-	Micronutrient Mixture	2562	71636-00	449750-00	
2.	Horticulture	2009-10	0.1	Arsikere tall	Coconut	3468	227968-00	525961-00	
	Nursery			Local	Arecanut	5005			
				KDM-1	Drumstick	15087			
				Alphanso	Mango	1176			

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

Name	Date of	Date of harvest	а (	Details	s of production	1	Amoui	nt (Rs.)	Remarks
of the crop	sowing		Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Ragi (Finger millet)	17-06-2016	14-11-2016	0.75	GPU-28	Seeds and Straw	9.65	62,810/-	75,050/-	
Maize	15-10-2016	15-10-2016	0.75	Commerical, MLVT	Seeds and Straw	31.27	32,099/-	48,455/-	
Minar Millets	13-07-2016	14-11-2016	0.5	Local	Seeds and Straw	3.95	26,700/-	28,700	
Pulses									
Oilseeds									
Fibers									
Spices & Plantati	on crops	•		•	•		•	<u> </u>	

Green manure cr	ops								
Sunhemp	16-10-2016	04-1-2017	0.5	Local	Seeds and Straw	1.25	2500/-	6250/-	
Dhiancha	20-07-2016			Local					Incorporated to soil to improve soil fertility.
Velvet beans	06-07-2016			Local					Incorporated to soil to improve soil fertility.
Fruits									, and the second
Mango									
Sapota									
Vegetables									
Brinjal	08-06-2016	11-11-2016	2 guntas	Commercial	Vegetables	2	1900/-	2,500/-	
Bhendi	06-06-2016	08-10-2016	2 guntas	Commercial	Pods	30 kg	1600/-	1,850/-	
Bottlegaurd									
Cucumber									
Plantation crops	•	•	•	•	•	•	•		
Arecanut									
Tamarind									

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

Sl.			Amoun	_	
No.	Name of the Product	Qty	Cost of inputs	Gross income	Remarks
1					

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

Sl.	Name of the animal /	Details of	production		Amoun	t (Rs.)	
No	bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Crossbred Cow Dairy	HF X	Milk	9510.51	324000.00	3,37,770.00	
2	Varietal Fodder plots demo unit	DHN-6, Guinea Grass (BG-9) Co-3 Napier	Root slips	22350 No.	-	10,900.00	
3	Azolla Demo Unit	Azolla pinnata	Azolla plant	36.0 kg	-	720.00	
4	Vermiculture and vermicompost demo unit		Compost	8477 kg	42000.00	84,770.00	
		Eudrilus Sp.	Earthworms	57.1 kg		17,130.00	
5	Ornamental Fish Production Unit	Guppies, Moilies, Sword tails	Ornamental fishes	3161	100.00	20,058.00	

#### 13. E. Utilization of hostel facilities

Accommodation available (No. of beds): 35

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall
April-2015	-	-	
May-2015	75	02	
June-2015	12	01	
July-2015	04	78	
August-2015	31	02	
September-2015	01	89	
October-2015	178	09	

November-2015	42	22	
December-2015	128	04	
January-2016	165	11	
February-2016	-	-	
March-2016	35	06	
Total	671	224	

### 13. F. Database management

Sl. No	Database target	Database created
1	• Data base on Soil test, Water test, Radio talk, TV talk and Guest lecture.	Updating is continues with these database.
2	• Database on training, FLD, OFT and others.	Updating of data is ongoing

### 13.G. Details on Rain Water Harvesting Structure and micro-irrigation system: NIL

Amount	Expenditure	Details of		Activities conducted							
sanction	( <b>Rs.</b> )	infrastructure	No. of Training	water	irrigated /						
( <b>Rs.</b> )		created / micro	programmes	programmes Demonstrations materials farmers officials l							
		irrigation system etc.			produced	(No.)	(No.)	'000 litres	pattern		

#### 13.H. Farmers Field School:

CROP	Bengal gram (Chickpea)
Technology	Integrated Crop Management in Bengalgram
Area	1 acre
Collaborator	Mr. Shivalingagowda
Participants	25
Facilitator	SMS (Agronomy, Soil Science, Plant Protection, SS &H
Village	Myduru, Harapnahalli Taluk

Sl. No.	DATE	Activities					
1	25-10-2016	Land preparation and seed treatment with					
		Biofertilsers for bengalgram					
2	2-12-2016	Integrated pest and disease management					
3	16-12-2016	Integrated Nutreint – Importance of of pulse					
		mangic in impproving the yield					
4	19-01-2017	Field Day					
5	06-02-2017	Post harvest technology and sharing the experince					
		of Participants .					

Name of the technology	Vari ety	Farming situation	Yield	(q/ha)	% Incre	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)				
demonstrat			De	Chec	ase	Gross	Gross	Net		Gros	Gross	Net	
ed			mo	k		Cost	Return	Return	BCR	S	Return	Return	BCR
										Cost			
Integrated	JAKI	Rainfed	11.3	10.1	10.61	25400	66670	41270	2.62	2470	59590	34890	2.41
Crop	_	with								0			
Management	9218	Protective											
		irrigation											

### Other works:

## **Farm Trials**

# Crop:Rice

- 1. Title: Performance of Paddy Varieties KKP-5 v/s JGL-1798
- 2. SMS Involved: Mr.Mallikarjuna B.O SMS (Agronomy)
- 3. Name of Village: Shygale and Kodihalli, Davangere taluk
- 4. No. of Trials:2

Colloboration: UAHS, Shivamogga

Particulars	JGL-1798	KKP-5
Plant Height	92.1 cm	101.3 cm
50 % flowering	97 days	101 days
Duration	135 days	137 days
No .of panicle /hill	15.5	17.1

Crop	Farming	No. of	Variety	Percent	Yield	GC	GR	NR	B:C
	situation	trials		increase(%)	q/ha				
Paddy	Irrigated	02	KKP-5	21.3	62.50	52,000	1,18,750	66,750	2.28
			JGL-1798		51.50	52,000	1,00,425	48,425	1.93

### **Crop: Hybrid Maize**

1. Title: PERFORMANCE OF Maize Hybrids MAH-14-5 v/s NAH-1137

2. SMS Involved: Mr.Mallikarjuna B.O SMS (Agronomy)

3. Name of Village: Siddanuru

4. Name of trials: 2

Colloboration: UAHS, Shivamogga

Particulars	MAH-14-5	NAH-1137
Plant Height cm	200.7	199.2
No. of rows/cob	14.5	14.1
Duration	120	120

Crop	Farming	No. of	Hybrid	Yield	GC	GR	NR	В:С
	situation	trials		q/ha				
Maize	Rainfed	02	MAH-14-5	63.50	47,500	82,550	35,050	1.73
			NAH-1137	59.00	47,500	76,700	29,200	1.61

### **Crop: Finger millet**

1. Title: PERFORMANCE OF High yielding Finger millet variety ML-322

2. SMS Involved: Mr.Mallikarjuna B.O SMS (Agronomy)

3. Name of Village : Myduru

4. Name of trials: 2

Colloboration: UAS, Bangalore

Particulars	ML-322
Plant height (cm)	116.3
No. of tillers/plant	5.7
No. of fingers/head	7.4
1000 seed weight (g)	25.2
0 .0,	

Crop	Farming	No. of	Hybrid			GC	GR	NR	В:С
	situation	trials		q/ha					
				Grain	Fodder				
Finger millet	Rainfed	03	ML-322	26.5	43.9	32800	80225	47425	2.44

### 13.I. a) Integrated Farming System in Dryland Horticulture

Name of the farmer,	Existing crop / enterprises	KVK intervention 2016-17			
Land holding and Annual Income (Rs) 2016-17		Crops/ Enterprises	Gross Income (Rs.)		
1	2	3	4		
Sri Renukarya M K	Coconut (paired and	Coconut	2,40,000		
U. Kallahalli,	pentagonal planting),	Arecanut	2,80,000		
Harpanahalli	Arecanut, Banana,	Banana	2,64,000		
•	Sapota, Mango, Fodder,	Sapota	80,000		
Area: 6 ha	Dairy, Vermicompost unit,	Mango	80,000		
	Farm ponds	Dairy	1,44,000		
		Sheep unit	22,550		
		Poultry	12,250		
		Fishery	6,000		
		Agro forestry	40,000		
		Total	11,68,750		
Sri Omkarappa	Maize, Ragi, Groundnut,	Maize	5,000-00		
S. Mallapura	Mango, Sapota, Coconut,	Ragi	10,000-00		
Honnali tq.	Betelvine, Beans, Banana,	Groundnut	8,000-00		
_	Vermicompost and Guava,	Betelvine	10,000-00		
Area-3.5 ha	Moosambi	Beans	5,000-00		
		Sapota	8,000-00		
		Mango	15,000-00		
		Banana	65,000-00		
		Guava	2,000-00		
		Total	1,28,000-00		
Sri Dyamanna	Maize, Cotton, Rose, Dairy,	Magize	75,000-00		
Haluvarthy	Arecanut, Poultry, Banana,	Chilli	25,000-00		
•	Chilli	Arecanut	2,50,000-00		
Area 06 ha		Poultry	2,50,000-00		
		Dairy	2,00,000-00		
		Total	8,00,000-00		

Sri. Arun kumar G C,	Dairy,Coconut and	Dairy	3,00,000.00
Bilichodu, Jagaluru	fodder, Arecanut and	Coconut and fodder	90,000.00
taluk	pepper, Tamarind,	Arecanut and pepper	2,10,000.00
	Maize, Cotton, Finger	Tamarind	35,000.00
Area-10 ha	millet	Maize	12,500.00
		Cotton	25,000.00
		Finger millet	57,000.00
		Total	7,29,500.00
Sri. Shankara Murthy	Maize, Finger Millet,	Arecanut	2,15,000-00
N.S.	Arecanut, Coconut,	Coconut	65,000-00
Lingadahalli	Arecanut nursery	Arecanut Nusery	85,000-00
Channagiri Taluk	Hebbavu	Maize	18,000-00
Davanagere Distict	Pepper	Finger Millet	7,000-00
		Pepper	12,000-00
Area-3.2 ha		Pepper seedlings	6,000-00
		Total	4,02,600-00
Sri Ramanjaneya	Paddy, Arecanut,	Paddy	2,19,000-00
Salakatte Camp	Coconut, Cocoa,	Arecanut	6,95,000-00
Sathyanarayanapura	Vermicompost, Farm	Coconut + Cocoa	5,88,000-00
Harihara taluk	Ponds, Dairy	Dairy	-
Davanagere District			
Area 5 ha			
			15,02,000-00

#### 13. I. b) Innovative Programme: (On-going)

#### **Davanagere Dairy Farmers Association (DDFA):**

- Monthly meeting to discuss the issues and decide about the viable solution to each problem.
- Technical seminar will be organized in the subject of farmers interest.
- Pharmaceutical Co., Feed Co., Dairy industry representatives will also participate and give knowledge on their products.
- Currently, DDFA is providing technical inputs to farmers and conducting seminars to develop their skills.
- Soft loan for the procurement of milking machine and cryo can.
- Outcome from last year's work:
  - Number of animals inseminated with superior germplasm (2 units) 3025
  - Number of animals conceived > 1300
  - Number of monthly technical meetings 05
  - Advisory services provided 12
  - Supply of good quality fodder seeds/slips (Lucerne, Nutrifeed, DHN-6, Napier X, Sugargraze, Sesbenia) 102 farmers
  - Supply of mineral mixture and vitamine tonic-785 farmers.
  - Improved milk production: From 5–6 litres/day to 10–12 litres/day
  - Net income/cow/month: From Rs. 400-500 to Rs. 1000-1200

### PART XIV - FINANCIAL PERFORMANCE

#### 14.A. Details of KVK Bank accounts

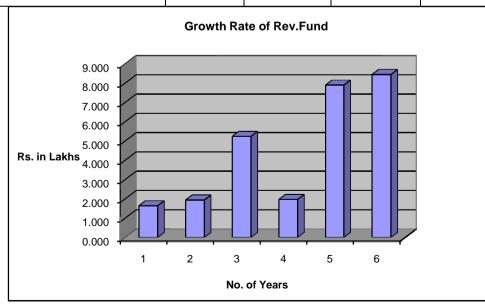
Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With KVK	State Bank of India	PJ Extension DAVANAGERE 577 002	5624	Taralabalu Krishi Vigyan Kendra (Main Grant Account)	30166599498	577002002	SBIN0005624
	Canara Bank	Vidyanagar DAVANAGERE 577 004	1813	Taralabalu Krishi Vigyan Kendra (Revolving Fund)	1813101010146	577015007	CNRB0001813

14. B.	Utilization of KVK Funds During the Year 2016-17 (Rs. In Lakhs)						
SI. No.	Particulars	Sanctioned (RE)	Released	Expenditure			
A.	RECURRING ITEMS :	Rs.	Rs.	Rs.			
1	Pay & Allowance	115.400	114.973	115.833			
	Travelling Allowance	1.250	1.000				
	Other Contingencies :	11.900	11.490				
	Office Stationery, Telephone, etc.	2.750	2.750				
	POL & Repairs	2.000					
	Meals/Refreshment for Trainees	0.500	0.500	0.500			
d)	Demon. & Teaching Materials	0.700	0.700	0.700			
e)	Front Line Demonstrations	2.620	2.430	2.428			
	On Farm Testing	0.480	0.260	0.253			
g)	Integrated Farming System (IFS)	0.300	0.300	0.299			
h)	Training To Extension Functionaries	0.250	0.250				
i)	Extension Activities	0.300	0.300	0.292			
j)	Farmers Field School (FFS)	0.300	0.300	0.300			
k)	SWT & Issue of Soil Health Cards	0.500	0.500	0.499			
l)	Display Boards	0.100	0.100	0.099			
	Mtc of Building	1.000	1.000				
n)	Mtc of Library	0.100					
	Total - 'A'	128.550	127.463	128.261			
	NON RECURRING ITEMS :						
	Equipments & Furniture						
	a) Office Automation	3.000		3.000			
	b) Furniture & Fixtures	1.000	1.000	0.999			
	Works						
	Vehicles (Replacement)	8.000	8.000	7.999			
4	Establishment of Library						
	Total - 'B'	12.000					
C.	REVOLVING FUND	0.000	0.000				
	Total ( A + B + C)	140.550	139.463	140.259			

# 14.C. Status of Revolving Fund (Rs. In Lakh) for Five Years

(Sanctioned: Rs.1 Lakh During 2004-05, Seed Money Returned: Rs.1 Lakh)

Year	Opening Balance	Receipts	Payments	Closing Balance
		Rs. In	Lakhs	
April 11 To Mar-12	0.695	41.291	40.339	1.647
April 12 To Mar-13	1.647	33.193	32.898	1.942
April 13 To Mar-14	1.942	29.733	26.432	5.243
April 14 To Mar-15	5.243	40.308	43.578	1.973
April 15 To Mar-16	1.973	39.112	33.18	7.905
April 16 To Mar-17	7.905	42.129	41.585	8.449



#### 15. Details of HRD activities attended by KVK staff during 2016-17

Sl. No.	Staff Name	Designation	Discipline	Training Title	Institute Address	Start Date	End Date	Amount (Rs)	Remarks
	1	2	3	4	5	6	7	8	9
1	Dr. Devaraja T.N.	Senior Scientist-Cum- Head	Fisheries	PGDAEM	MANAGE, Hyderabad	1-1-2016	31-12-2016	-	-
2	Mr. Basavanagouda M.G.	SMS	Horticulture	PGDAEM	MANAGE, Hyderabad	1-1-2016	31-12-2016	-	-
3	Mr. Raghuraja J.	SMS	Agri. Extension	PGDAEM	MANAGE, Hyderabad	1-1-2016	31-12-2016	-	-
4	Dr. Devaraja T.N.	Senior Scientist-Cum- Head	National orientation workshop for Fishries Experts	NFDB	Hyderabad	16-6-2016	17-6-2016		
5	Mr. Raghuraja J.	SMS	Agri. Extension	Desgigning Impact Evaluation for Agricultural Technologies	ICAR- NRRI, Cuttack	1-8-2016	10-8-2016	50-00	

#### 16. Any other important and relevant information which has not been reflected above:

- Krishi Vigayn Kendra promoted farmers received the following National Awards:
  - > Sri Shankara Murthy N.S., Lingadahalli village, Channagiri taluk received Jagjivan Ram Abhinav Kisan Puraskar Award by ICAR-New Delhi.
  - > Sri Anjayneya A.N., Kumbalur Village, Harihara taluk received PPV & FRA Plant Genome Saviour Reward, New Delhi along with cash prize of Rs. 1.5 Lakh.
- Participated in 2 day 2<sup>nd</sup> Krishi Vigyan Kendra Symposium' held at TNAU, Coimbatore and presented 3 poster and 1 oral papers and won Best Poster Award to Sri. Basavanagouda M.G. et.al.

- Completed DAESI Diploma course for 4 input dealers of Harihara taluk in collaboration with SAMETI South, MANAGE, Hyderabad and Department of Agriculture, Davanagere.
- Celebrated following special days:
  - ➤ 'National Fish Farmers Day' in collaboration with Department of Fisheries, Davanagere.
  - > "World Fisheries Day' in collaboration with Department of Fisheries, Davanagere.
  - > International Farmers Day' in collaboration with Department of Agriculture and Krishik Samaja, Davanagere.
  - > 'National Science Day' in collaboration with Government First Grade College, Davanagere.
  - > 'World Environment Day' in collaboration with 'Biofuel Information and Demonstration Centre, Kasa Rasa Abhiyana and Saptagiri School, Davanagere
  - 'World Food Day'
  - > 'World Diabeties Day' in collaboration with 'Traditional Medicine Academy', Karnataka.
  - > 'World Soil Health Day' in collaboration with Department of Agriculture and IAT, Davanagere.
- Organized 6 day Krishi Mela at Sirigere, chitradurga district from 19-09-2017 to 24-09-2017 in collaboration with Development Departments and Agro input agencies.
- Participated in the 'Flower and Fruit Show' organized by Department of Horticulture from 15-18 April 2016 and 18-20 February 2017.
- Participated in the' Krishi Mela' organized by UAHS, Shivamogga from 21-24 October 2016.
- Organized workshop on 'Agroforestry' in collaboration with Institute of Agro-forestry Farmers and Technocrates, Bengaluru.
- Organized training on 'Sandalwood and other Forestry Technologies' in collaboration with Institute of Wood Science and Technology, Bengaluru.
- Organized 2 day 'State Level Innovative Farmers Conference' sponsored by National Innovation Foundation-India. 65 farmers from 18 district presented their innovation.
- Organized awareness programme on "Protection of Plant Varieties and Farmers Right Act' sponsored by PPV & FR Authority, New Delhi.
- PMFBY inauguration was organized in Krishi Vigyan Kendra and union minister of State Sri G.M. Siddeshwara inaugurated the programme. Krishi Mela was organized on this occasion in collaboration with Development Departments and input agencies.

The followed up discussion on the merits and demerits of the scheme discussed in presence of HH Dr. Shivamurthy Shivacharya Mahaswamiji at Sirigere with all the Stake Holders, viz; Bank officials, Farmer leaders, Politicians, Bureacrats.

- Organized 2 orientation programmes for 2<sup>nd</sup> PUC passed students for admission to Agricultural Universities (259 students participated).
- Organized 2 (5 days) training programmes on 'Inland Fish Farming' sponsored by National Fisheries Development Board, Hyderabad (56 farmers participated).
- Hosted 1 year Diploma in Traditional medicine for 40 candidates in collaboration with Paramparika Vydya Parishath, Karnataka.

#### **Biofuel Information and Demonstration Centre:**

- Conducted 14 training programme to 494 participants on Bioenergy to farmers, farm women and rural youths.
- Conducted 11 Awareness Programme to 1019 High School and college students, farmers, farmwomen, Rural folk and urban people through demonstrations, discussion and Jathas.
- Conducted 7 'Bioenergy Exhibition' for more than 25,000 participants at Horticulture exhibition conducted by Department of Horticulture, at Sapthageri school, at Krishi Mela in eve of Taralabalu Hunnime, Sirigere, Chitradurga district, at University of Agricultural and Horticultural Sciences, Shimoga in eve Krishi Mela.
- Celebrated 'World Environmental Day' on 11<sup>th</sup> June 2016 in collaboration with Sapthageri English Medium School, Davangere.
- More than 1000 biofuel samplings like Honge, Simaruba, Neem and Hippe were planted during the period.
- Produced 293 litters of bio-diesel from Honge seed. Utilized for office diesel vehicles and sold outside on demand. 2250 kgs of Honge cake produced was sold

#### **NICRA Project:**

- Farm Ponds constructed in 15 farmer's field
- Insitu moisture conservation (ploughing across the slope).
- Introduced drought to lerant, short duration varieties of Redrgram, Finger millet (ML-365) and Alphanso mango and Drumstick benefiting 92 farmers.
- Preventive vaccination against foot and mouth disease done-38 livestock is vaccinated 869 farmers are benefited.
- Four Animal Helath check up done and treated 51 animals.
- Perennial and silage production taken up with 35 farmers
- Organized exposure visit to CRIDA, Hyderabad and ICRISAT, Hyderabad for 13 Farmers.
- Custerm hiring centre activities benefited 150 farmers and generated Rs. 9090 income.

# Important activities held at ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere related to Swachhta Pakhwada during 16 to 31 October, 2016.

Sl. No.	Name of Activities related to Swachhta Pakhwada	Location (KVK campus/village name/name of other locations)	Important person/ dignitaries/ VIPS attended the activities
1	unough KASA-KASA Abinyana	ICAR-Taralabalu Krishi	All the KVK staff  Kasa Rasa Abhiyana, Core Committee  Members headed by Dr. Shantha Bhat,  Renowned Gynocologistic, Davanagere
2	i v	Nyamathi, Honnali Taluk	Dept. of Agriculture,Davanagere
3	Awareness programme on Swachh Bharath Andolan along with field day Siddanuru, Davanagere district.	_	Dr. Sreenath Dixit, Director, ATARI, Bengaluru
4	Awareness programme on Swachh Bharath Andolan on the occasion of training programme on 'Sandalwood and other forestry technologies'.		Sri Manjunatha, Deputy Conservator of Forest and Sri Gopya Naik, Assistant conservator of Forest, Dept. of Forestry, Davanagere and Dr. Somashekhar, Research officer, Institute of Wood And Science and Technology, Bengaluru, Dr. Umesh and Dr. Narasihmamurthy, Assistant Directors of Agriculture, Dept. of Agriculture, Davanagere

				Dr. Vasudevappa, Vice Chancellor, Dr.	l
		UAHS, Shimoga from 21-10-2016 to 24-10-2016		T.H.Gowda, Director of Extension and	l
				Director of Research, Professors of	l
				UAHS, Shimoga	l
Ī	6	Organized awareness programme on Swaccha Bharath	Marikunte village, Jagalur	Dr. Spoorthy, Deputy Director, Dept. of	l
		Andholan	Taluk, Davanagere district.	Agriculture, Davanagere, Dr Ramappa	l
				Patil, Extension Leader, ZAHRS,	l
				Kathalagere, UAHS, Shivamogga	l
Ī	7	Organized awareness programme on Swaccha Bharath	Kanavihalli, Harapanahalli	Along with FLD faremrs	l
		Andholan	taluk, Davanagere district.		l
					l

#### **SUMMARY FOR 2016-17**

#### I. TECHNOLOGY ASSESSMENT

#### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed					
Integrated Nutrient Management	Onion	Role of sulphur in improving the productivity of onion	05				
Varietal Evaluation	Foxtail millet	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated	03				
	Bengalgram	Assessment of Bengalgram Variety for Wilt and Drought	03				
Integrated Pest Management	Banana	Assessment of different molecules for Banana skipper management	03				
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							
Others (Pl. specify)							
		Total	14				

#### Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Dairy	Effect of feeding urea trated paddy straw along with grain mixture for better performance in Dairy Animals.	05
Production and Management			
Others (Pl. specify)			
Total			05

#### Summary of technologies assessed under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

#### Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

#### II. TECHNOLOGY REFINEMENT

#### Summary of technologies refined under various crops

Thematic areas	Crop	Name of the technology refined	No. of trials
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			
Others (Pl. specify)			
Total			

#### Summary of technologies assessed under refinement of various livestock

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management			
Total			

#### Summary of technologies refined under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

#### Summary of technologies refined under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

#### III. FRONTLINE DEMONSTRATION

### Crops

Crop	Thematic area	Name of the technology	No. of KVKs	No. of Farmer	Are a	Yield	(q/ha)	% change in yield	Other parame	eters	*Econon	nics of demo	nstration (I	Rs./ha)	*	Economics (Rs./h		
	aita	demonstrated	KVKS	rarmer	(ha)	Demons ration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	CR Cost Return Return		BC R	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Cereals																		
Maize + Redgram	ICM	Integrated crop management in Maize with emphasis on IPDM practices	-	15	06	38.77	33.42	16.0	Plant height of Maize (cm)- 165.57 Number of rows/cob (No.)- 12.93 Stem borer incidence in maize(%)-3.0	159.67 12.53 9.0	35706	58162	22455	1.62	33688	50138	16499	1.4
Millets																		
Finger Millet	ICM	HYV drought tolerant ML- 365 Spraying of water soluble fertilsers		25	10	31.3	28.9	30.03	Plant height (cm) – 114.5 No. of tillers/hill- 7.98 Fodder yield(q/ha)- 53.24	1037 6.14 49.25	31616	90855	59239	2.87	31304	74950	43646	2.39
Sorghum	Integrated Crop Management	Integrated Crop Management in Sorghum		10	04	8.90	7.4	20.3	21.3	19.6	18250	27590	9340	1.51	16250	22940	6690	1.41
		3							40.21	37.15								
			_	_						_								
Oilseeds																		
Sunflower	ICM	1.Nutient Manamgnent Pest and disease Manangment Weed Manangment		65	26	16.5	11.3	46.01	Plant height (cm) -17.2 Head size cm-13.85 Test weight (g) -56.28	167.8 11.15 47.15	27393	72063	44671	2.63	23255	49202	25948	2.12

	1				I				1	1	1	1	1	JAK- I al ald	abaia itvit	i, Davanaç	JCIC
Pulses																	
Redgram	ICM	Integrated crop management in Redgram- BRG-5 (NFSM)	25	10	9.4	8.5	9.57	Germination (%)- 83 Plant height (cm)- 160.92	81 152.08	11750	31960	20210	2.70	12500	26350	13850	2.1
								No. of branches (nos.)- 5.82 No of pods (nos.)-	5.25 61.80								
								70.9 Pod filling (%)- 58.84	51.4								
								Pod length (%)-7.10	6.70								
								Wilt incidence (%)-3.0	5.0								
								Pod borer incidence (%)-4.0	8.0								
Pulses-Field Bean	ICM	Variety –HA- 4 Use eof water souluble fertilsers	05	02	11.9	9.25	10.83	Plant height(cm) – 63.26 Pod borer(%)- 4.98 Pods/plant- 112.4	52.10 17.86 101.8	16180	30750	14750	1.90	16000	25950	9950	1.62
Bengal gram	ICM	Use of Bio fertilsers for seed treatment Use of Pulse Magic @ 5kg/ha Use of Phermone traps @ 5 No.	25	10	11.9	9.25	10.83	Plant height (cm)–29.3 Wilt Incidence(%)- 4.02 No. of Pods/plant- 64.02	25.9 17.86 51.84	23962	67108	43146	2.80	21954	45632	23678	2.08
Vegetables	Into onet d Co-	Integrated Crop															
regetables	Integrated Crop Management	Management in Chilli	05	02	179.82	162.32	10.78	192.76	182.32	43820.0 0	143856.00	100036. 00	3.28	46880.00	129856.0 0	82976.00	2.77
Flowers																	
Ornamental																	<u> </u>
Fruit																	1

														CAK-Taraia		t, Davana	
Banana	IDM	Integrated management of sigatoka leaf spot in Banana	 05	02	44.18	33.62	31.40	Incidence of leaf spot (%)- 6.20	18.72	84600	176728	92128	2.08	88960	134504	45544	1.5
Commercial			-														
Fibre crops like cotton			 														
Cotton	Integrated Crop Management	Integrated Crop Management in cotton	20	08	15.40	13.97	10.2	7.45	12.94	28600.00	75447.75	46847.7 5	2.64	29300.00	68462.80	39162.8 0	2.34
								7.31	21.35								
Medicinal and aromatic								6.86	19.36								
Fodder																	
Plantation																	-
Arecanut	ICM	ICM	 05	01	18.00	11.65	54,5	Number of Inflorescenc e/plant- 7.0	4.0	139421 -00	360000 -00	22057 8-00	2.5	120396 -00	23300 0-00	11260 3-00	1.92
								Unprocesse d nuts (kg/plant)- 8.97	5.8								
								Processed nuts(kg/plan t)-1.44	0.93								
								Inflorescenc e Die back(%)- 2.46	9.14								
Coconut	Intercropping	KDM-1 Drumstick as intercrop	 10	4	14555 nuts/ha	8492 nuts/ha	71.39	Coconut yield(nuts/pal m)-124	63	51638-	174660 -00	12302 1-00	3.3	44113- 00	10190 4-00	57790 -60	2.31
								Drumstick yield (pods/plant)- 87									
Fibre																	

#### Livestock

Category	Thematic area	Name of the technology	No. of KVKs	No. of Farmer	No.of units	Major pa	arameters	% change in major parameter	Other pa	rameter	*Econo	omics of den	onstration	ı (Rs.)	*	Economic (Rs		
	area	demonstrated	KVKS	rarmer	umes	Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Nutrietion Management	Establishment of Fodder cafetariya	-	10	02 ha	31.6	24.6	28.2	-	-	18800	28215	9415	1.5	14600	19800	5200	1.35
Dairy	Nutrietion Management	Integrated Management of dairy animals for better performance (Feeding total mixed ration)	-	01	05	9.65	8.80	9.6	1.028	1.025	117	241.25	124.25	2.06	89	130	41	1.46
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat	Nutrietion Management	Balanced feeding and total deworming in small ruminants for better body weight gain	-	10	10	Sheep Body weight in kg/60 days	46.0 Sheep Body weight in kg/60 days	15.67 Sheep Body weight in kg/60 days	76% of the animals attained naturity during the period and taken Ram	Only 40% of the animals attained maturity and taken Ram	4248	11060	6812	2.6	30000	6600	3600	2.2
Duckery		Total																
		10141																

#### **Fisheries**

Category	Thematic	Name of the technology	No. of KVKs	No. of Farmer	No. of units	Maj param		% change in major parameter	Other pa	rameter	*Econo	mics of den	nonstration (R	(s.)		*Economic (R	s of check s.)	
	area	demonstrated	KVKS	raimei	uiiits	Demons	Check		Demons	Check	Gross	Gross	Net	**	Gross	Gross	Net	**
						ration			ration		Cost	Return	Return	BCR	Cost	Return	Return	BCR
Common																		
carps																		1
Mussels																		
Ornamental																		
fishes																		İ
		Total							ı.				•				l .	•

#### Other enterprises

Category	Name of the technology	No. of KVKs	No. of Farmer	No.of	Major pai	rameters	% change in major parameter	Other pa	rameter	*Econo	mics of de or Rs.		n (Rs.)	;	*Economic (Rs.) or 1		
	demonstrated	KVKS	rarmer	units	Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster																	
mushroom																	
Button																	
mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others																	
	Total					•	•	•	•	•			•	•		•	

# Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

## Farm implements and machinery

Name of	Crop	Name of the	No. of	No. of	Area	File	ed	% change in	Labor	reduction	n	Cost	reductio	on (Rs./l	na or
the		technology	KVKs	Farmer	(ha)	observ	ation	major	(ma	n days)			Rs./Un	it etc.)	
implement		demonstrated				(output/man		parameter							
						hou	ır)								
						Demons	Check								
						ration									

# Other enterprises: Nil

### **Demonstration details on crop hybrids**

	Name of the	NT C	Area	Yield (kg/ha) / n	najor pa	rameter		Econom	ics (Rs./ha)	
Crop	Hybrid	No. of farmers	(ha)	Demonstration	Local check	%	Gross Cost	Gross Return	Net Return	BCR
1	2	3	4	5	6	7	8	9	10	11
Cereals										
Maize+ Redgram	Private	15	06	38.77	33.42	16.0	35706	58162	22455	1.62
Others										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Oilseeds-Sunflower	MSFH-17	65	26	16.5	11.3	46.01	27393	72063	44671	2.63
Groundnut										
Soybean										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										

a.									10/ II C Taraiabara	
Others										
Total										
Cucumber										
Tomato										
Chilli										
Okra										
Onion										
Potato										
Field bean										
Others										
Total										
Commercial crops										
Sugarcane										
Coconut										
Cotton	Vikarm BG- II (Bt)	20	8	15.4	13.97	10.2	28600	75447.75	46847.75	2.64
Total										
Fodder crops										
Maize (Fodder)										
Sorghum (Fodder)										
Others										
Total		100	40							

# **IV** Trainings

#### Training of Farmers and Farm Women including sponsored training programmes (On campus)

	No. of				No.	of Partici	pants			
Area of training	Courses		General			SC/ST			<b>Grand Tot</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	16	0	16	2	0	2	18	0	18
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others										
d) Seed treatment	1	12	0	12	2	0	2	14	0	14
e) Bio fuel production and use of bioproducts										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										

Nursery raising									Talabala 1(V)	, Davariager
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others a)Kitchen garden and terrace gardening	2	1	62	63	53	0	53	54	62	116
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										
Plant propagation techniques										
Others										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others a)										
d) Plantation crops										
Production and Management technology	2	52	0	52	7	0	7	59	0	59
Processing and value addition										
Others 1. Dryland horticulture										
e) Tuber crops										
Production and Management technology										

Processing and value addition								TOAK TO	alabala KVK	, Davanagere
Others										
f) Spices										
Production and Management technology										
Processing and value addition										
Others										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	1	21	12	33	3	0	3	24	12	36
Production and use of organic inputs	1	36	1	37	0	0	0	36	1	37
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others										
Livestock Production and Management										
Dairy Management	2	10	24	34	2	0	2	12	24	36
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	18	0	18	5	0	5	23	0	23

Animal Disease Management								ICAR Tar	alabala KVK,	Davanager
Feed and Fodder technology	1	12	0	12	1	0	1	13	0	13
Production of quality animal products										
Others: a) Preparation of vermicompost										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
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										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others –Production Technology of Mushroom	1	56	14	70	15	4	19	71	18	89
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition	-									
Post Harvest Technology										
Others										
Plant Protection										

		1	_		1	T	1	ICAK-Tai	alabalu KVK,	Davanager
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others a) Apiculture										
Fisheries										
Integrated fish farming	1	6	0	6	0	0	0	6	0	6
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										
Others -1. Recent technologies in aquaculture										
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									<u></u>	Davanager
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others –Bio-gas production										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (PUC students orientation)	2	172	100	272				172	100	272
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	412	213	625	90	4	94	502	217	719

### Training of Farmers and Farm Women including sponsored training programmes (Off campus)

	No. of	No. of General SC/ST Grand Total										
Area of training	Courses								<b>Grand Tot</b>	al		
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	2	3	4	5	6	7	8	9	10	11		
Crop Production												
Weed Management	2	82	0	82	16	0	16	98	0	98		
Resource Conservation Technologies												
Cropping Systems												
Crop Diversification												
Integrated Farming												
Micro Irrigation/Irrigation												
Seed production												
Nursery management												
Integrated Crop Management	5	71	0	71	32		32	103		103		
Soil and Water Conservation												
Integrated Nutrient Management	3	59	0	59	6	0	6	65	0	65		
Production of organic inputs												
Others a) seed treatment	3	112	0	112	7	0	7	119	0	119		
f) Mechanized transplanting in paddy												
Horticulture												
a) Vegetable Crops												
Production of low value and high volume crop	1	7	0	7	2	0	2	9	0	9		
Off-season vegetables												
Nursery raising												
Exotic vegetables												
Export potential vegetables												
Grading and standardization												
Protective cultivation	1	33	19	52	0	0	0	33	19	52		
Other (Kitchen and Terrace garden												
b) Fruits												
Training and Pruning	2	14	0	17	13	0	13	30	0	30		

							1	l labara revie	, Davanagere
		_		_	_			_	
1	12	0	12	0	0	0	12	0	12
1	13	0	13	0	0	0	13	0	13
1	22	0	22	2	0	2	24	0	24
		1 13	1 13 0	1 13 0 13	1 13 0 13 0	1 13 0 13 0 0	1 13 0 13 0 0	1 13 0 13 0 0 0 13	1 13 0 13 0 0 0 13 0

g) Medicinal and Aromatic Plants								ICAR TO	alabalu KVK	, Davariagei
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	3	41	0	41	5	0	5	46	0	46
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	15	0	15	3	0	3	18	0	18
Production of quality animal products										
Others										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										

								ICAN TO	alabalu vyv	, Davanagci
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										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others										
Plant Protection										
Integrated Pest Management	4	50	0	58	22	0	22	80	0	80
Integrated Disease Management	3	50	0	50	17	0	17	67	0	67
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others										
Fisheries										

					ICAR-Ta	ralabalu KVK,	Davanagere
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							
Others							
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 –FOCT										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	31	592	19	611	125	0	125	717	19	736

### Training for Rural Youths including sponsored training programmes (on campus)

	No. of										
Area of training	Courses		General			SC/ST					
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nursery Management of Horticulture crops	2	3	4	5	6	7	8	9	10	11	
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming	1	16	11	27	0	1	1	16	12	38	
Seed production	1	12	12	24	0	0	0	12	12	24	
Production of organic inputs	1	12	12	24	0	U	0	12	12	24	
Planting material production											
Vermi-culture										<del> </del>	
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									labara KVTÇ	
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										
Others.										
IV. Role of Rural Youth in Agriculture	1	43	32	75	12	6	18	55	38	93
V. Ex- trainees sammelan for FOCT trainees										
VI. Soil and water conservation										
TOTAL	3	71	55	126	12	7	19	83	62	145

### Training for Rural Youths including sponsored training programmes (off campus)

	No of	No. of Participants  O. of Capacial SO/ST Cross Tate								
Area of training	No. of Courses		General			SC/ST		G	rand Tota	al
	Courses	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						]
TOTAL						]

### Training programmes for Extension Personnel including sponsored training programmes (on campus)

	No. of				No. o	f Partici	pants			
Area of training	Courses		General			SC/ST		G	rand Tot	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	36	1	37	7	0	7	43	1	44
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	46	0	46	2	0	2	48	0	48
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	01	19	ı	19	05	ı	05	24	ı	24
Household food security										
Any other	1	19	0	19	9	0	9	28	0	28
a) Safe use of pesticide										
b) Technology transfer mechanism in Animal science										

c) Biofuel training to gram panchayath officials and elected members										
d ) Management of Horticulture crops	1	28	0	28	6	1	7	34	1	35
e) Post harvest technologies	1	14	5	19	2	0	2	16	5	21
Total	6	162	6	168	31	1	32	193	7	200

# Training programmes for Extension Personnel including sponsored training programmes (off campus)

	No of				No. o	of Particip	ants			
Area of training	No. of Courses		General		SC/ST			Grand Total		
	Courses	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										
Household food security										
Any other a) Integrated farming system										
Total										

# Sponsored training programmes conducted

		No. of			e Total Male Female Total Male Female Tot						
S.No.	Area of training	Courses		General			SC/ST	<u> </u>	G	rand Tot	al
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12
1	Crop production and management										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Dryland horticulture	3	98	3	101	12	0	2	110	3	113
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	Others:										
	a) Kitchan and Terrace Gardening	4	17	364	381	36	21	57	53	385	438
	b)Vegetables seed production	1	27	0	27	18	0	18	45	0	45
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others										
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a.	Animal Nutrition Management	1	24	0	24	0	0	0	24	0	24
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others: Livestock based employment opportunity										
10.f	Profitable dairying through group action										
10.g	Integrated dairying and vermicompost										

1	2	3	4	5	6	7	8	9	10	11	12
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others: 1.Sandalwood and other forestry technologies	1	82	20	102	8	4	12	10	24	114
	2. Protection of Plant Varieties and Farmers Right Act										
	Total	10	248	387	365	74	25	99	322	412	734

#### Details of sponsoring agencies involved

- 9. Department of Horticulture, Davanagere.
- 10. Bayer Crop Science Ltd.
- 11. Institute of Wood Science and Technology, Bengaluru.
- 12. IAT, Davanagere
- 13. NFDB, Hyderabad.
- 14. Suvarna Agro Technology
- 15. Sujala-III, KWDP-II, Department of Horticulture, Davanagere
- 16. Department of Horticulture, Davanagere.
- 17. Bayer crop Science

### Details of Vocational Training Programmes carried out by KVKs for rural youth

		No. of				No.	of Particip	ants			
S.No.	Area of training	Courses		General			SC/ST		(	<b>Grand Tota</b>	l
		Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12
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										
2	Post harvest technology and value addition										
2.a.	Value addition										
2.b.	Others										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture	2	39	3	43	10	1	11	49	4	53
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others										
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										<u> </u>
4.h.	Nursery, grafting etc.										

									10/110 101	alabala KVIK,	Davariagere
1	2	3	4	5	6	7	8	9	10	11	12
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others: Coconut climbing and plant protection										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others									·	
	Grand Total	2	39	3	42	10	1	11	49	4	53

#### PART VIII – EXTENSION ACTIVITIES

#### **Extension Programmes (including extension activities undertaken in FLD programmes)**

Activities	No. of Activities	No. of Participants				
		No. of Farmers	No. Extension Personnel			
Field Day	11	475	47			
Animal health campaign	02	166	Animal treated			
Kisan Mela	01	50000	200			
Exhibition	05	350270	664			
Film Show	02	15	22			
Method Demonstrations	32	919	119			
Farmers Seminar	05	522	27			
Farm Science Club (DDFA)	06	84	07			
Group meetings						
Lectures delivered as resource persons	92	9986	1064			
Newspaper coverage	85					
Radio talks	09					
TV talks	03					
Popular articles	08					
Scientific visit to farmers field	185	2196	376			
Advisory over phone	574	574				
Farmers visit to KVK	2020	3767	52			

Diagnostic visits	39	217	68
Exposure visits	02	53	09
Ex-trainees Sammelan			
Soil test campaigns	01	25	
Meeting/workshops with extension offiicals	08		838
Celebration of Days	08	1145	56
Kisan Ghosti	09	9000	50
KMAS	30	7000	

#### PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers
Cereals (crop wise)						
Oilseeds						
Pulses						
Commercial crops						
Vegetables	Drumstick	KDM-1 (Bhagya)	-	1.575	40762.50	11
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Green manure						
Others						
Total				1.575	40762.50	11

### Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers
1	2	3	4	5	6	7
Commercial						
Vegetable seedlings	Drumstick	KDM-1 (Bhagya)	-	15,087	1,81,044.00	48
Fruits	Mango	Alphanso	-	1,176	43,800.00	07
Ornamental plants						
Medicinal and Aromatic						
Plantation	Arecanut	Channagiri Local	-	5,005	1,25,125.00	17
	Coconut	Arasikere tall	-	3,468	147779.999	
Spices						
Tuber						

1	2	3	4	5	6	7
Fodder slip	Guinea	BG-9	-	1100	550	02
Fodder cuttings	Napier	DHN-6	-	1750	350	05
Forest Species						
Total				27586	4,98,648.99	79

#### **Production of Bio-Products**

<b>Bio Products</b>	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers
Bio Fertilizers	Azolla	36	720	16
Bio-pesticide				
Bio-fungicide	Trichoderma	31	3720	05
Bio Agents	Eathworm	57.1	17130	23
Others	Vermicompost	8477	84770	185
	Banana Special	2562	448350	496
	Vegetable Special			
	Milk	9510.5	323357	302
	Pseudomonas flurescence			
Total		31,238.6	939606.829	1027

#### **Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers
1	2	3	4	5
Dairy animals				
Cows				
Buffaloes				
Calves	HF x	04	10000.00	2
Others	-	04	10000.00	2

1	2	3	4	5
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others				

Piggery				
Piglet				
Others				
Fisheries				
Fingerlings				
Ornamental fishes	Guppies, Mollies, Sword tails	3161	30058	66
Total		3169	50058	70

#### VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2016-17

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	Soil Health Card
Soil	1254	1024	786	123300	1254
Water	1140	905	719	57000	
Plant					
Manure	-				
Total					

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted - 1

#### IX. NEWSLETTER

Number of issues of newsletter published: Nil

#### X. RESEARCH PAPER PUBLISHED

Number of research paper published - 3

#### XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted					
No. of Training programmes No. of Demonstrations No. of plant materials produced Visit by farmers Visit by off					
			(No.)	(No.)	
	-			-1	

<u>X</u>	XXXXXX	
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