

# **Annual Progress Report 2015-16**

**(FOR THE PERIOD APRIL 2015 TO MARCH 2016)**

**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-Krishi Vigyan Kendra, Davanagere  
Kadalivana, LIC Colony Layout, B.I.E.T. Road  
Davanagere - 577 004**

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**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 Kadalivana, LIC Colony Layout, B.I.E.T. Road, Davanagere – 577 004 Davanagere-Dist.	08192 – 263462	08192 – 260969	<a href="mailto:dvgtkvk@yahoo.com">dvgtkvk@yahoo.com</a>	www.taralabalukvk.com

**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 Foundation Sirigere – 577541 Chitradurga (Dist.)	08194 – 268829, 268842	08194 - 268847	<a href="mailto:dvgtkvk@yahoo.com">dvgtkvk@yahoo.com</a>	<a href="http://www.taralabalu.org">http://www.taralabalu.org</a>

**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 31<sup>st</sup> March 2016)**

<b>Sl. No.</b>	<b>Sanctioned post</b>	<b>Name of the incumbent</b>	<b>Designation</b>	<b>M/F</b>	<b>Discipline</b>	<b>Highest Qualification (for SS&amp;H, SMS and Prog. Asstt.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
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	Driver	Mr. Marulasiddaiah N.M.	Driver	M	Jeep Driver	BA
14	Driver	Mr. Shivakumara S.	Driver	M	Tractor Driver	S.S.L.C.
15	Supporting staff	Mr. Shivakumara B.	Supporting staff	M	Office Attendant	S.S.L.C.
16	Supporting staff	Mr. Shivakumara S.E.	Supporting staff	M	Field Attendant	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	473250/-	17-05-2005	Permanent	Others
Mr. Basavanagowda M.G.	15600-39100	21220/-	21-11-2006	Permanent	Others
Mr. Mallikarjuna B.O.	15600-39100	20440/-	09-01-2008	Permanent	Others
Dr. Jayadevappa G.K.	15600-39100	20440/-	29-01-2008	Permanent	Others
Mr. Raghuraja J.	15600-39100	19680/-	23-06-2008	Permanent	Others
Mr. Prasanna Kumara N.	15600-39100	19680/-	24-06-2008	Permanent	Others
Mr. Sannagoudra H.M.	15600-39100	16230/-	01-07-2013	Permanent	Others
Mr. Revanasiddappa G.B.P.	9300-34800	10130/-	11-04-2012	Permanent	Others
Mr. Santhosh B.	9300-34800	11940/-	05-09-2008	Permanent	Others
Mr. Vijayakumar S.B.	9300-34800	11940/-	23-06-2008	Permanent	Others
Mr. Mallikarjuna S.Gudihindala	9300-34800	15100/-	01-06-2005	Permanent	Others
Mrs. Mamatha H. Melmalagi	5200-20200	10700/-	26-06-2005	Permanent	Others
Mr. Marulasiddaiah N.M.	5200-20200	8360/-	01-06-2005	Permanent	Others
Mr. Shivakumara S.	5200-20200	8360/-	01-06-2005	Permanent	Others
Mr. Shivakumara B.	5200-20200	7370/-	01-06-2005	Permanent	Others
Mr. Shivakumara S.E.	5200-20200	7370/-	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
		<b>15</b>

**1.7. Infrastructural Development:****A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
<b>1.</b>	<b>Administrative Building</b>	ICAR	04.01.2008	550	29.37			Completed
<b>2.</b>	<b>Farmers Hostel</b>	ICAR	04.01.2008	300	18,82,000.00			Completed
<b>3</b>	<b>Plant Health Clinic</b>	ICAR	01.04.2012		10,00,000.00			Completed
<b>4.</b>	<b>Staff Quarters</b>	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)							
<b>5.</b>	<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. Zero Energy Cool Chamber	DBT	1.12.2010	2.5	13,000.00			Completed
	4. Azolla bulk production unit	RF	2010	3	3,000.00			Completed
	5. Azolla production unit	NICRA	28.03.2013	3.53	20,000.00			Completed
	6. Ornamental fish breeding unit	DBT	2010	700	1,49,955.00			Completed
	7. Fish polyculture pond with horti integration	DBT	2010	600				Completed
	8.Portable Carp hatchery	ICAR	31-03-2011	--	2,25,000-00			Completed
	9.Fodder demo units	RF	2010	4000	41,428.00			Completed
	10. Biogas unit	RF	2011	04	29920.00			Completed
	11. Fish cum paddy cultivation unit	RF	2011	421	13071.00			Completed
	12. Vermicomposting units	RF	2008	121	60000			Completed
	13 .Vermicomposting unit	DBT	2010	60	15000			Completed

<b>6.</b>	<b>Orchards and agro forestry</b>						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. Tamarind 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
<b>7.</b>	<b>Fencing</b>	ICAR	31-03-2011	930 feet	11,0000-00		Completed
<b>8.</b>	<b>Rain Water harvesting system</b>	--	--	--	--	To be sanctioned	--
<b>9.</b>	<b>Threshing yard</b>	ICAR	31-03-2011		2,00,000-00		Completed
<b>10.</b>	<b>Farm Godown</b>	ICAR	--	--	--	To be sanctioned	--
<b>11.</b>	<b>Bore wells (2 No.s)</b>	ICAR	31-03-2011		3,00,000-00		Completed
<b>12.</b>	<b>Irrigation system</b>	ICAR	31-03-2011		1,00,000-00		Completed
<b>13.</b>	<b>Borewell recharge unit</b>	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	2,19,727	Good
Hero Honda CD Deluxe	2006	39,298-00	60699	Good
Yamaha Alba	2009	48,309-00	45,700	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

### 1.8. Details SAC meeting conducted in 2015-16

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2016-17
1	2	3	4	5
<b>Group-I: To be addressed at KVK level</b>				
1	15-12-2015	Popularize safe ripening technology in Banana	On going	
2		Popularize urea treated fodder enrichment technology	Being popularized and practical in NICRA village	
3		Interventions on soil fertility improvement like crop rotation, green manuring etc.	Proposed FLD and educating farmers through FAS	
4		Offer farm advisories/solutions/recommendations through a flag to the farmer fields affected by pests/diseases if come across on the way during the field.	On going	
5		Collect observations and data on component wise in IFS demonstrations	On going	
6		Document data on performance of technology products purchased from KVK.	On going	

7		Provide feed-back (socio-economic and technical constraints) on technological interventions of KVK especially results on OFTs/FLDs to the respective source organization.	On going	
8		Disseminate information on various schemes implemented by state department of agriculture, horticulture, engineering, fisheries, animal husbandry etc in the form of leaflet among KVK client etc.	On going	
9		Prepare compendium on OFTs and FLDs carried out by KVK since its inception	Formats for compendium prepared and will be completed by August-2016	
10		Arrange visits for farmers of other villages in the district of Davanagere to NICRA project village	Farmers from Gadag district visited NICRA village on March - 2016	
11		Promote Azolla production using rain water rather than bore well or from other sources.	On going	
<b>Group-II: To be addressed through action plan of KVK for the year 2016-17</b>				
1		Take up ICM in Redgram	Proposed FLD on ICM in Redgram	
2		Introduce suitable intercrop in sole Banana crop and Arecanut gardens	Popularized flower crops in early stages of crop grown	
3		Suitable intervention to promote millet crops in the district.	OFT millets conducted, seeds of STA-2644 were distributed to farmers.	
4		Intervention on mechanization and aerobic method in Paddy for selected farmers.	On going	
5		Issue soil health cards.	Soil health cards being distributed	
6		Involve in carrying suitable home science activities especially for Women Self Help Groups through SMSs (Home Science) from neighboring KVKs	On going	
7		Address anabe roaga and stem bleeding in Coconut and Arecanut	Conducted diagnostic field visit and method demonstration on management	
8		Promote dry banana technology	On going	
9		Increase technological interventions under crops like Maize, Finger millet, Jowar, Pulses, Oilseeds crops.	On going	
10		Take up integrated methods to control ticks	On going	



<b>Group-III: To be addressed through convergence with the departments in Davanagere district.</b>				
1		Promote Floriculture, Green house and polyhouse technologies	Conducted two training programmes for 100 farmers on this aspect	
2		Use media (Radio and TV) more for quick dissemination of technology information among farmers, stakeholders and intended clientele.	On going	
3		Provide information on marketing aspects to farmers and if possible involve personnel from marketing agencies (APMC)	On going	
4		Promote solar energy in agriculture especially in bore wells to address electricity problems	Introduced technology in 2 farmers	
5		Encourage participatory approaches like FPO's instead of individual farmer benefit.	Given technical advised for newly formed 3 FPO's	
6		Optimum use of artificial insemination technology	On going	
7		Develop CHC in Siddanuru village with the help of line departments.	On going	
8		Popularize terrace garden through trainings under line departments.	Conducted training for 200 families	
9		Demonstrate onion drill sowing machine technology with the help of line departments	On going	
10		Promote crop rotation in polyhouses sanctioned/implemented under line departments	Providing technology for polyhouse grown farmers on this aspect	
11		Introduce appropriate IHR technologies under horticulture crops in Davanagere district.	Popularising technologies through FLD/OFTs	
12		Replicate AIR, Mysore and NABARD programme (ಮರಳಿ ಬಾ ಮಣ್ಣಿಗೆ) (Get back to the roots) in Davanagere	On going	
13		Promote Apiculture on EDP mode through vocational training sponsored by the line department.	On going	

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

### **2.1 Major farming systems/enterprises:**

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

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 688.9 mm 2015). 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 (Zone VII)	Southern transitional zone includes Channagiri and Honnali taluks. The dominating soil types found are red sandy soil 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 (Harihara, Channagiri, Jagalur, Davanagere Tq.)	Low water holding capacity Neutral pH Low Nitrogen content Medium in Phosphorus and Potash	1, 26,000
2	Deep to Medium Deep Black Soil (Jagalur, Davanagere, Harapanahalli)	High water holding capacity Neutral to Alkaline pH Medium in Nitrogen and Phosphorus High Potassium	54,000
3	Mixed Red and Black Soil (Honnali, Jagalur, Harapanahalli)	Medium water holding capacity Neutral pH Medium in Nitrogen, Phosphorus and Potassium content	1, 62,000
4	Sandy Loam Soil (Harapanahalli, Davanagere)	Poor water holding capacity Neutral pH Deficient in Nitrogen, Phosphorus and Potassium	18,000
<b>Total</b>			<b>3, 60,000</b>

**2.4. ( a) Area, Production and Productivity of major crops cultivated in the district**

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
	Jowar(Ratoon)	255	0	0
3	Ragi	14508	31837	2194
4	Maize	188448	806475	4280
5	Bajra	1502	2410	1605
6	Wheat	232	361	1556
7	M.Millets	114	91	800
<b>I</b>	<b>Total Cereals:</b>	<b>338278</b>	<b>1440203</b>	
1	Tur	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
8	Mothbean (Madaki)	0	0	
<b>II</b>	<b>Total Pulses:</b>	<b>21208</b>	<b>24624</b>	
	<b>Total Foodgrains:</b>	<b>359486</b>	<b>1464827</b>	<b>4075</b>
1	Groundnut	18228	26473	1452
2	Sesamum	136	203	1489
3	Sunflower	4586	5364	1170
4	Castor	350	385	1100
5	Niger	191	76	398
6	Mustard	61	24	400
7	Soyabean	6	6	1067
8	Safflower	0	0	
9	Linseed	0	0	
<b>III</b>	<b>Total Oilseeds:</b>	<b>23558</b>	<b>32531</b>	
<b>IV</b>	<b>Commercial Crops:</b>			
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
	<b>Total Commercial Crops:</b>	<b>47360</b>	<b>1459244</b>	
	<b>GRAND TOTAL</b>	<b>430404</b>	<b>2956601</b>	

(Source: Department of Agriculture, Davanagere. 2014-15)

**2.4. (b) Area, Production and Productivity of Horticulture crops in the district**

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (t /ha)
1	Mango	4168.72	35279	8.46
2	Banana	4709.43	76710.18	16.29
3	Lemon	141.35	1369.42	9.65
4	Sapota	981.31	8772.14	8.94
5	Pomegranate	365.22	5224.36	44.65
6	Papaya	296.5	8292.5	27.97
7	Tomato	5583.2	98798.3	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	4.54
13	Radish	214.93	1914.61	8.91
14	Capsicum	158.6	1962.42	12.37
15	Cabbage	155.8	3461.68	22.22
16	Khol-Knol	180.96	3394.39	18.76
17	Clusterbean	135.65	918.22	6.77
18	Muskmelon	122.5	165.5	13.51
19	Drumstick	159.08	459.11	2.89
20	Watermelon	345	5741.1	16.64
21	Bitterguard	124.5	862.22	6.93
22	Ridge gourd	158.65	1238.61	7.81
23	Cucumber	194.44	2992.91	15.39
24	Coconut	14192.1	2559.14	0.1803
25	Arecanut	38989.9	73268.23	1.88
26	Betelvine	1072.73	3768.9	3.51
27	Oil palm	1739.79	10286.98	4.71
28	Cocoa	783.96	597.32	0.76
29	Marigold	1047.85	3885.85	3.71

(Source: Department of Horticulture, Davanagere. 2013-14)

**2.5 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2007)**

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	111371	41975	6 liter/day
<i>Indigenous</i>	283752	--	
<b>Buffalo</b>	223601	--	
<b>Sheep</b>			
Crossbred (Sheep)	22	--	--
<i>Indigenous</i>	333435	--	--
<b>Goats</b>	153940	--	--
<b>Pigs</b>			
<i>Crossbred</i>	01	--	--
<i>Indigenous</i>	6492	--	--
<b>Rabbits</b>	170	--	
<b>Poultry</b>			
Hens	2054012	--	--
<i>Desi</i>	--	--	--
<i>Improved</i>	--	--	--
Ducks	--	--	--
Turkey and others	--	--	--

Category	Area	Production (tons)	Productivity kg/ha
Fish	--	--	--
<i>Marine</i>	--	--	--
<i>Inland</i>	--	16052.53	800
Prawn	--	--	--
Scampi	--	--	--
Shrimp	--	--	--

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

**2.6. Weather data**

Month	Rainfall (mm)	
	Actual *	Normal
January-2015	0.4	0.2
February-2015	0	0
March-2015	11.2	13.5
April-2015	30.8	40.2
May-2015	116.2	88.8
June-2015	85	60.7
July-2015	75.2	136.0
August-2015	91.5	185.8
September-2015	126.8	105.0
October-2015	114.7	145.8
November-2015	36.1	35.5
December-2015	1	32.0
<b>Total</b>	688.9	<b>656.10</b>

\* Dept. of Agriculture, Davanagere

## 2.7 District profile has been Updated for 2014-15: 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
Davanagere	Davanagere	Hosabelavanuru	3 years	Paddy	• No timely transplanting.	Integrated Crop Management
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						
Davanagere	Mayakonda	Shyagale	2 years	Paddy	• No timely transplanting.	
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						



Davanagere	Mayakonda	Kandagal	2 years	Paddy	• No timely transplanting.	
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						
Davanagere	Mayakonda	Kodihalli Camp	1 year	Paddy	• No timely transplanting.	
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						
Davanagere	Mayakonda	Gonivada	1 year	Paddy	• No timely transplanting.	
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						

Harihara	Harihara	Devarabellakere	3 year	Paddy	• No timely transplanting.	
					• Poor vegetative growth after transplanting.	
					• Excess use of nitrogenous fertilizers.	
					• Incidence of BPH	
					• Sheath blight	
					• Blast and stem borer	
					• Indiscriminate use of pesticides	
• Labour problem						
Harapanahalli	Chigateri	Kadabagere	1 year	Ragi	• Harvesting	
					• Seed selection	
					• Stem borer	
Harapanahalli	Chigateri	Hunsihalli	1 year	Ragi	• Harvesting	
					• Seed selection	
					• Stem borer	
Harapanahalli	Chigateri	Bennehalli	1 year	Foxtail millet	• Use of local varieties	
					• Higher seed rate	
					• Improper nutrient management	
Harapanahalli	Chigateri	Hunsihalli	1 year	Foxtail millet	• Use of local varieties	
					• Higher seed rate	
					• Improper nutrient management	
Honnali	Honnali	Dodderahalli	1 year	Sorghum	• Use of local varieties	
					• No seed treatment with bio-fertilizers	
					• No IPM measures	
Davanagere	Anagodu	Tumbigere	2 year	Redgram	• Use of local varieties	
					• No application of bio-fertilizers	
					• Incidence of pod borer and wilt	
Harapanahalli	Chigateri	Kadabagere	1 year	Chickpea	• Use of local variety	
					• Pod borer and wilt	

Harapanahalli	Arasikere	Kuremanganahalli	4 year	Cotton	• Square dropping and leaf reddening	
					• Incidence of sucking pest	
					• Improper spacing	
					• Improper fertilizer application	
Honnali	Honnali	Dodderahalli	1 year	Cotton	• Square dropping and leaf reddening	
					• Incidence of sucking pest	
					• Improper spacing	
					• Improper fertilizer application	
Davanagere	Anagodu	Siddanuru	5 year	Arecanut	• Water prolem	
					• Hidimundige syndrome	
					• Nut splitting	
					• Kolergoga	
					• Improper nutrient management	
					• Absence of suitable intercrops	
					• Labour problem	
					• Deficiency of boron and potassium	
• Dropping and shedding of nuts						
Honnali	Belagutti	Belagutti	1 year	Arecanut	• No intercrops in yielding plantatons	
					• Nut dropping and nut spiltting	
					• Electricity problem	
					• Incidence of hidimundige syndrome	
					• Squirrels problem	
Honnali	Belagutti	Malligenahalli	1 year	Arecanut	• No intercrops in yielding plantatons	
					• Nut dropping and nut spiltting	
					• Electricity problem	
					• Incidence of hidimundige syndrome	
					• Squirrels problem	

Harihara	Malebennur	Kumbalur	2 year	Coconut	• Poor utilization of interspace	
					• Lower yield level	
					• Premature nut dropping	
					• Anaberoga and mites	
					• Nut cracking	
Harapanahalli	Arasikere	Kuremaganahalli	4 year	Banana	• Low plant population per unit area; Micro nutrient deficiency	
					• In efficient use of land	
					• Lower productivity	
					• Sigatoka leaf spot	
					• Skipper problem	
• No use of bio fungicides						
Davanagere	Davanagere	Halebisleri	4 year	Banana	• Sigatoka leaf spot	
					• Skipper problem	
					• No use of bio fungicides	
Honnali	Honnali	Dodderahalli	1 year	Chilli	• Improper nutrient management leaf curl	
Davanagere	Anagodu	Tumbigere	2 year	Tomato	• Incidence of TLCV, late blight and bacterial wilt.	
					• Fruit cracking	
					• Grading and post harvest handling.	
Harapanahalli	Arasikere	Kuremaganahalli	4 years	Dairy	• Fertility problem.	
					• Fodder availability.	
					• Imbalanced nutrition	
					• Fodder availability	
Davanagere	Davanagere	A. Basapura	2 year	Dairy	• Imbalanced nutrition	
					• Infertility problem and green fodder scarcity.	

Harapanahalli	Arasikere	Kuremaganahalli	4 years	Sheep and Goat	• Rearing of local breeds	
					• Lack of balanced nutrition	
					• Parasitic infestation	
					• Animal exposed to various agro climatic condition.	
Harapanahalli	Arasikere	Ramanagara	1 year	Sheep and Goat	• Lack of space for grazing	
					• Lack of awareness on worm load	
					• Labour problem	
					• Lack of shelter for small ruminants	

### 2.9 Priority thrust areas

Sl. No.	Thrust area
1	Varietal assessment in Foxtail millet, Dolichos bean
2	INM in Paddy
3	ICM in Paddy, Fingermillet, Foxtail millet, Sorghum, Redgram, Bengalgram, Cotton, Arecanut and Chilli
4	Efficient utilization of interspace in Arecanut and Coconut
5	IPDM in Banana
6	Clean milk production
7	Balanced nutrition in livestock

**PART III - TECHNICAL ACHIEVEMENTS****3.A. Details of target and achievements of mandatory activities**

<b>OFT</b>				<b>FLD</b>			
<b>1</b>				<b>2</b>			
<b>Number of OFTs</b>		<b>Number of farmers</b>		<b>Number of FLDs</b>		<b>Number of farmers</b>	
<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>
05 (2015-16)	04 (01 is in progress)	17	17	18 (2015-16)	17 (01 not implemented)	184 (2015-16)	180
02 (2014-15)	02	23	23	01 (2014-15)	01	15 (2014-15)	19

<b>Training</b>				<b>Extension Programmes</b>			
<b>3</b>				<b>4</b>			
<b>Number of Courses</b>		<b>Number of Participants</b>		<b>Number of Programmes</b>		<b>Number of participants</b>	
<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>	<b>Targets</b>	<b>Achievement</b>
112	69	3565	1724	1950	1807	10915	20718

<b>Seed Production (Qtl.)</b>		<b>Planting materials (Nos.)</b>	
<b>5</b>		<b>6</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
Sunhemp- 8 q	3.63 q	Azolla	44.5 kg
Velevet beans-6 q	1.50 q	Horticulture seedlings	12856
Drumstick	0.68 q	Fodder slips	19850
Diancha-8 q	0.75 q		

<b>Livestock, poultry strains and fingerlings (No.)</b>		<b>Bio-products (Kg)</b>	
<b>7</b>		<b>8</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
Ornamental fishes	1128	<i>Trichoderma</i> – 750 kg	162kg

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

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions	
				Title of OFT if any	Title of FLD if any
1	2	3	4	5	6
1	Integrated Nutrient Management	Rice	<ul style="list-style-type: none"> <li>Imbalanced nutrient management</li> </ul>	Assessment of various methods of urea application in paddy with an emphasis on nitrogen use efficiency.	--
2	Varietal	Foxtail millet (Navane)	<ul style="list-style-type: none"> <li>Low yield, No seed treatment with bio fertilizers</li> </ul>	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed	
3	Varietal Assessment	Dolichos bean	<ul style="list-style-type: none"> <li>Low Yield in existing varieties</li> </ul>	Varietal assessment in Dolichos Bean for higher yield	
4	Pest Management	Banana	<ul style="list-style-type: none"> <li>Banana skipper</li> </ul>	Assessment of different molecules for Banana Skipper management	
5	Animal nutrition (2014-15)	Cattle	<ul style="list-style-type: none"> <li>Lower production, infertility and repeat breeding in dairy animals</li> </ul>	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.	
6	Low yield	Banana	<ul style="list-style-type: none"> <li>Lower plant density</li> </ul>	Modified high density planting in Banana	
7	Nutrition Management (2015-16)	Dairying	<ul style="list-style-type: none"> <li>Inefficient utilization of available feeding resources leading to high production cost in Dairy animals</li> </ul>	Effect of feeding urea treated Paddy straw along with grain mix for better performance in Dairy animals	

8	Integrated Crop Management	Paddy	• No timely transplanting.		Mechanization in Paddy
			• Indiscriminate use of fertilizers		
			• Non availability of skilled labour		
			• Higher seedlings		
9	Integrated crop management in paddy	Paddy	• No timely transplanting.		Integrated crop management in paddy
			• Poor vegetative growth after transplanting.		
			• Excess use of nitrogenous fertilizes.		
			• Incidence of BPH		
			• Sheath blight		
			• Blast and stem borer		
			• Indiscriminate use of pesticides		
• Labour problem					
10	Integrated Crop Management	Ragi	• Low yield		Integrated Crop Management in HYV of Ragi (ML-365)
			• Lack of knowledge on varietal durations		
11	Integrated Crop Management	Ragi	<ul style="list-style-type: none"> <li>• Harvesting</li> <li>• Low yield</li> <li>• Use of local varieties</li> <li>• No use of bio fertilizers</li> </ul>		Integrated Crop Management in Ragi (GPU-28)
12	Integrated Crop Management	Foxtail millet	• Use of local varieties		ICM in Fox tail millet in late Kharif- HMT-100-1
13	Integrated Crop Management	Sorghum	• Use of local varieties		ICM in Sorghum (SPV-2217)
			• No seed treatment		
			• Lack of knowledge on biofertilizer and bio agents		
14	Intercrop in Maize	Redgram	• Use of local varieties		Redgram as Intercrop in Cereals - BRG-2
			• No application of bio-fertilizers		
			• Incidence of pod borer and wilt		
15	Integrated Crop Management	Chickpea	<ul style="list-style-type: none"> <li>• Use of local variety</li> <li>• No seed treatment with biofertilizers</li> <li>• Incidence of pod borer and wilt</li> </ul>		Integrated crop management in Bengalgram (NFSM)



16	Integrated Crop Management	Cotton	• Pod borer and wilt		Integrated Crop Management in Cotton
			• Square dropping and leaf reddening		
			• Incidence of sucking pest		
			• Improper spacing		
			• Improper fertilizer application		
17	Integrated Crop Management	Arecanut	• Water prolem		Integrated Crop Management in Arecanut
			• Hidimundige syndrome		
			• Nut splitting		
			• Kolergoga		
			• Improper nutrient management		
			• Absence of suitable intercrops		
			• Labour problem		
			• Deficiency of boron and potassium		
			• Dropping and shedding of nuts		
18	Intercropping in Arecanut	Dolichos Bean	• No intercrops in yielding plantatons		Dolichos Bean (Arka Amogh) as Intercrop in young Arecanut gardens
			• Nut dropping and nut spilting		
			• Electricity problem		
			• Incidence of hidimundige syndrome		
			• Squirrels problem		
19	Intercropping in Coconut	Coconut	• Poor utilization of interspace		Drumstick (KDM-1) as inter crop in Coconut gardens
			• Lower yield level		
			• Premature nut dropping		
			• Anaberoga and mites		
			• Nut cracking		
20	Integrated Disease Managment	Banana	• Sigatoka leaf spot		Integrated management of sigatoka leaf spot in Banana
			• Skipper problem		
			• No use of bio fungicides		
21	Integrated Crop Management	Chilli	• Improper nutrient management leaf curl		Integrated Crop Management in Chilli

22	Nutrition Management	Tomato	• Incidence of TLCV, late blight and bacterial wilt.		Demonstration of ripple disease resistant hybrid
			• Fruit cracking		
			• Grading and post harvest handling.		
			• Lack of balanced nutrition		
			• Parasitic infestation		
			• Animal exposed to various agro climatic condition.		
23	Livestock Nutrition and Management (2014-15)	Sheep and Goat	• Lack of space for grazing		Balanced feeding and total deworming in small ruminantore for better performance.
			• Lack of awareness on worm load		
			• Labour problem		
			• Lack of shelter for small ruminants		
24	Nutrition and Management (2015-16)	Fodder	• Lack fodder/ Fertility problem		Fodder cafeteria
25	Nutrition and Management (2015-16)	Dairy	• Under nutrition and unscientific management dairy animals		Integrated management of Dairy animals for better performance.
26	Integrated disease management	Tomato	• Incidence of TLCV, late blight and bacterial wilt.		Demonstration of triple disease resistant hybrid in Tomato
			• Fruit cracking		
			• Grading and post harvest handling.		

## 3.B1. Contd...

Sl. No	Crop/ Enterprise	Interventions								Supply of bio products	
		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.)	No.	Kg	
1	2	7	8	9	10	11	12	13	14	15	
1	Rice	2	-	-	8	-	-	-	4	0	
2	Foxtail millet (Navane)	1	-	-	11	0.16	-	-	2	8	
3	Dolichos bean	1	-	-	4	0.225	-	-	-	-	
4	Banana	1	-	-	6	-	1200	-	-	-	
5	Cattle	1	-	4	-	-	-	-	-	-	
6	Banana	1	-	-	7	-	1200	-	-	-	
7	Dairying	1	-	-	-	-	-	-	-	-	
8	Paddy	3	-	-	17	-	-	-	2	60	
9	Paddy	-	-	-	10	-	-	-	2	12	
10	Finger Millet	3	-	-	14	1.0	-	-	2	40	
11	Finger Millet	1	-	-	6	0.5	-	-	2	20	
12	Foxtail millet	1	-	-	6	0.3	-	-	2	20	
13	Sorghum	1	-	-	7	0.3	-	-	2	20	
14	Redgram	1	-	-	13	-	-	-	-	-	
15	Chickpea	4	-	-	15	5.0	-	-	3	120	
16	Cotton	3	-	-	8	-	-	-	-	-	
17	Arecanut	1	-	-	7	-	-	-	1	10	
18	Dolichos Bean	1	-	-	4	-	-	-	-	-	
19	Coconut	1	-	-	6	0.0225	-	-	-	-	
20	Banana	1	-	-	4	-	-	-	1	17	
21	Chilli	-	-	-	1	-	-	-	-	-	
22	Tomato	3	-	-	5	0.0015	-	-	-	-	
23	Sheep and Goat	1	-	-	6	-	-	-	-	-	
24	Fodder	1	-	-	1	2.5	8000	-	-	-	
25	Dairy	1	-	-	7	-	-	-	-	-	

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

Technology Refinement: Nil

**Technology Assessments****1. Rice (OFT)**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of various methods of urea application in paddy with an emphasis on nitrogen use efficiency	UAS (Bengaluru)	Rice	1		-	
No. of farmers covered							
OFT		FLD		Training		Others (Specify)	
General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16
3	-	-	-	-	-	-	-

**2. Foxtail Millet**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
2	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated	UAS (Bengaluru) UAS (Dharwad) UAS (Raichur_	Foxtail millet	1		1	
No. of farmers covered							
OFT		FLD		Training		Others (Specify)	
General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16
2	-	-	-	-	-	9	2

## 3. Dolichos Bean

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
3	Varietal assessment in Dolichos Bean for higher yield		Dolichos Bean	1	-	1	-								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	1	-	-	-	-	-	-	-	8	-	-	-	-	-	-

## 4. Banana

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
4	Assessment of different molecules for Banana Skipper management	UAS (Bengaluru)	Banana	1		1	-								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-

## 5. Banana

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
5	Modified high density planting in Banana	NRC (Trichi)		1		1									
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
3	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-

## 6. Cattle

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
6	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.	NIANP	Dairy	1	-	1	Group meeting Field visit 2								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	-	-	-	-	-	-	-	18	-	-	-	17	-	-	-

**Fornt Line Demosnrations:****1. Paddy**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
9	Mechanization in Paddy	UAS (Benglauru) CIAE (Bhopal)	Paddy		1	3	1 (Field day)								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	13	2	-	-	47	-	-	-	-	-	-	-

**2. Paddy**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
10	Integrated crop management in paddy	UAS (Benglauru)	Paddy		1	2									
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-		10	-	5	-	22	-	14	-	-	-	-	-







## 7. Redgram

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
13	Redgram as intercrop in cereals-BRG-2	UAS (Bengaluru)	Redgram		1	1									
No. of farmers covered															
OFT		FLD		Training		Others (Specify)									
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	7	-	2	1	11	-	2	-	-	-	-	--

## 8. Chickpea

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
14	Integrated crop management in Bengalgram (NFSM)	UAS (Bengaluru)	Bengalgram		1	4	-								
No. of farmers covered															
OFT		FLD		Training		Others (Specify)									
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-		24	1	-	-	75	01	-	-	-	-	-	--

**9. Cotton**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
15	Integrated Crop Management in Cotton	UAS (Bengaluru)	Cotton		-	3	Field day 1								
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	10	-	10	-	17	-	15	-	13	-	05	--

**10. Arecanut**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
16	Integrated Crop Management in Arecanut	UAS (Bengaluru)	Arecanut		1	1									
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	4	-	1	-	6	-	-	-	-	-	-	--

**11. Dolichos bean**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
17	Dolichos bean (Arka Amogh) as intercrop in young Arecanut gardens	IIHR (Bengaluru)	Dolichos bean		1	1									
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	4	1	-	-	8	-	-	-	-	-	-	--

**12. Coconut**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
18	Drumstick (KDM-1) as intercrop in Coconut gardens	UHS (Bagalkote)	Coconut		1	1	-								
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	6	3	-	1	16	-	-	-	-	-	-	--

**13. Banana**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
19	Integrated Management of sigatoka leaf spot in Banana	UAS (Bengaluru)	Banana		1	1	-								
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	4	-	1	-	9	-	1	-	-	-	-	-

**14. Chilli**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
20	Integrated Crop Management in Chilli		Chilli												
<b>No. of farmers covered</b>															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	--

**15. Tomato**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
21	Demonstration of tripple disease resistant hybrid tomato	IIHR (Bengaluru)	Tomato, Arka Rakshak		1	3									
<b>No. of farmers covered</b>															
<b>OFT</b>				<b>FLD</b>				<b>Training</b>				<b>Others (Specify)</b>			
<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>	
<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
-	-	-	-	13	-	1	1	30	-	6	4	-	-	-	--

**16. Sheep and Goat (2015-16)**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
22	Balanced feeding and total deworming in small ruminants for better performance.	KVAFSU	Sheep and Goats rearing		1	1	Group Meeting Field visit								
<b>No. of farmers covered</b>															
<b>OFT</b>				<b>FLD</b>				<b>Training</b>				<b>Others (Specify)</b>			
<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>		<b>General</b>		<b>SC/ST</b>	
<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
-	-	-	-	3	-	-	2	12	-	-	2	-	-	-	--

**17. Fodder (2015-16)**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
23	Fodder cafeteria	KVA & FSU (Bengaluru)	Fodder	-	1	1	Group discussion Field visit								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-		5	-	-	-	14	-	-	-	-	-	-	--

**18. Dairy (2015-16)**

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted											
				OFT	FLD	Training	Others (Specify)								
1	2	3	4	5	6	7	8								
31	Integrated management of Dairy animals for better performance	KVA & FSU	Dairying	-	1	1	Group discussion Advisory Field visits								
No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-			5	-	-	-	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	01									01
Varietal Evaluation	01				01					02
Integrated Pest Management						01				01
Integrated Crop Management						01				01
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										
<b>Total</b>	<b>02</b>				<b>01</b>	<b>02</b>				<b>05</b>

**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									
<b>Total</b>									

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management	02					02
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
<b>TOTAL</b>	<b>02</b>					<b>02</b>

#### 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						
<b>TOTAL</b>						

**4.B. Achievements on technologies Assessed and Refined****4.B.1. Technologies Assessed under various Crops**

<b>Thematic areas</b>	<b>Crop</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>Number of farmers</b>	<b>Area in ha (Per trail covering all the Technological Options)</b>
Integrated Nutrient Management	Paddy	Assessment of various methods of urea application in paddy with and emphasis on nitrogen use efficiency	03	03	0.8 ha
Varietal Evaluation	Foxtail millet	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated	02	02	
	Dolichos bean	Varietal Assessment in Dolichos bean for higher yield	04	03	0.8 ha
Integrated Pest Management	Banana	Assessment of different molecules for Banana Skipper management	03	03	300 plants
Integrated Crop Management	Banana	Modified high density planting for improved productivity in Banana (2014-15)	03	03	0.6 ha
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					
<b>Total</b>			<b>14</b>	<b>14</b>	

**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					
<b>Total</b>					

**4.B.3. Technologies assessed 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	Cattle	Alleviation of eversion of reproductive organs in dairy animals through balanced nutrition (2014-15)	20	20
	Cattle	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.	05	05
Disease management				
Value addition				
Production and management				
Feed and fodder				

Small scale income generating enterprises				
			<b>Total</b>	<b>25</b>
				<b>25</b>

#### 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				
<b>Total</b>				

## 4.C1. Results of Technologies Assessed

## Results of On Farm Trial

## 1. Paddy

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
Rice	Irrigated	Imbalanced nutrient management	Assessment of various methods of urea application in paddy with an emphasis on nitrogen use efficiency.	03	<b>Technology option 1 (Farmer's practice) :</b> No soil test based fertilizer application. No use of boron  <b>Technology option 2:</b> RDF (100:50:50 N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) Application 50% N&K and 100% P as Basal. Top dressing of 25 %N at 25-30 DAT and 25%N and 50% K at 50 DAT	1.Nitrogen use efficiency (kg/kg) 2.Test weight (g/1000 seeds)	1.48.44 2.24.48  1.60.54 2.25.59	Application of neem coated urea and/or soil blended urea increases the yield but blending the urea with soil is laborious and its application is difficult	. Application of urea blended with soil has given good results but farmers are not ready to accept it because of its preparation is difficult and laborious. Application of neem coated urea has also given almost similar yield as that of soil blended urea.	--	--

					<b>Technology option 3:</b> RDF (100:50:50 N: P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) top dressing of nitrogen through Neem Coated Urea	1.62.91 2.26.42			--	--
					<b>Technology option 4:</b> RDF (100:50:50 N: P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) top dressing of nitrogen through urea blended with wet soil.	1.63.39 2.26.13				

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Technology Assessed	Source of Technology	Production	Unit	Net Return (Rs. / unit)	BC Ratio
13	14	15	16	17	18
<b>Technology option 1 (Farmer's practice) :</b>	--	60.83	q/ha	52042/-	2.07
<b>Technology option 2</b>	UAS (B)	60.57		55341/-	2.24
<b>Technology option 3</b>	UAS (B) & IARI, New Delhi	62.91		58902/-	2.32
<b>Technology option 4</b>	UAS (B)	63.39		59827/-	2.34

## 2. Foxtail millet (Navane)

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		
Foxtail millet (Navane)	Rainfed	Low yield, No seed treatment with bio fertilizers	Assessment of Foxtail Millet (Navane) Varieties for higher yield under rainfed situated	02	<b>Technology option 1 (Farmer's practice) :</b> Local seeds	1.Plant height (cm)	1.70.5 2.9.7	Tolerant to moisture stress, Compact Panicle, Medium size grains, Pink hairs in the variety SIA-264 is better compared to other varieties	--	--	--		
					<b>Technology option 2:</b> Seed-SIA-2644	2.Panicle length (cm)	1.108.7 2.21.9					--	--
					<b>Technology option 3:</b> Seed-HMT-100-1		1.102.65 2.18.5					--	--

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Rs. / unit)	BC Ratio
13	14	15	16	17	18
<b>Technology option 1 (Farmer's practice) :</b>	--	8.7	q/ha	8680/-	1.71
<b>Technology option 2</b>	UAS (R)	14.5		21800/-	2.68
<b>Technology option 3</b>	UAS (D)	13.8		20120/-	2.55

## 3. Dolichos bean

Crop/ enterprise	Farmin g situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameter s of assessment	Data on the parame ter	Results of assessment	Feedback from the farmer	Any refine ment need ed	Justi ficati on for refin eme nt
1	2	3	4	5	6	7	8	9	10	11	12
Rice	Irrigated	Low Yield in existing varieties	Varietal assessment in Dolichos Bean for higher yield	03	<b>Technology option 1 (Farmer's practice) :</b> Nyamathi Local	1.Germinati on (%) 2.Plant height (cm) 3.Number of pods per plant (Number)	1.88	<ul style="list-style-type: none"> <li>Yield was better in Arka Sambram compare to other varieties</li> <li>Market price was very good for the variety HA-4</li> </ul>	<ul style="list-style-type: none"> <li>Performanc e of all the demonstrate d varieties was good and it was highest in Arka Sambram</li> <li>Need to develop some more day neutral varieties</li> </ul>	--	--
					<b>Technology option 2:</b> Hebbal Avare-3		1.94			--	--
					<b>Technology option 3:</b> Hebbal Avare-4		2.62			--	--
					<b>Technology option 4:</b> Arka Sambram		3.226				
							1.94				
							2.63				
							3.239				
							1.95				
							2.65				
							3.244				

Contd..



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) :	--	7.16	t/ha	39716/-	1.58
Technology option 2	UAS (B)	10.0		71932/-	1.91
Technology option 3	UAS (B)	10.9		82486/-	2.01
Technology option 4	IIHR	13.66		121893/-	2.46

## 4. Banana

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	Banana skipper	Assessment of different molecules for Banana Skipper management	03	<b>Technology option 1 (Farmer's practice) :</b> Spray with chloropyriphos @2ml/l <b>Technology option 2:</b> Spraying with Flubendiamide 48 SC @0.25ml/l (for Paddy Leaf Folder)	<b>1.</b> Larval mortality (%) <b>2.</b> Freshly damaged leaves @ 15 & 30 DAS (%) <b>3.</b> Yield (t/ha)					Trial is going on

				<b>Technology option 3:</b> Spraying Chlorantraniliprole 20 SC (Coragen 20SC) @ 0.3ml/l (for Paddy Leaf Folder)		
				<b>Technology option 4:</b> Hand collection and destroying		

Contd..

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) :	--	Trial is going on			
Technology option 2	UAS (B)				
Technology option 3	KAU				
Technology option 4	--				

## 5. Dairy

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
Cattle	Semi intensive	Lower production, infertility and repeat breeding in dairy animals	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy animals.	05	<b>Technology option 1 (Farmer's practice) :</b> Feeding dairy animals with paddy straw along with brans/cakes	1.Milk quality (CLR) 2.Cost of feeding (Rs./90 days)	1.1.024 2.3258/-	<ul style="list-style-type: none"> <li>• There is no wastage of fodder and animals like the enriched fodder. This method helps in balanced feeding of dairy animals</li> <li>• Good quality chaff-cutter at reasonable price should be made available to farmers</li> </ul>	<ul style="list-style-type: none"> <li>• Supply of TMR blocks containing urea-treated straw and grain mixture is beneficial to farmers.</li> <li>• Readymade feed blocks containing all the desired ingredients are beneficial to farmers</li> </ul>	--	--
					<b>Technology option 2:</b> Feeding dairy animals with urea treated paddy straw along with compounded cattle feed and vitamin mineral mixture		1.1.027 2.5273.10/ -			--	--
					<b>Technology option 3:</b> Feeding dairy animals with urea treated paddy straw along with grain mixture and cattle feed and vitamin mineral mixture		1.1.027 2.5634.90/ -			--	--

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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) :	--	394	Liters/ 90days	4630.40/-	2.42
Technology option 2	KVAFSU, Bidar	612		6966.90/-	2.32
Technology option 3	NDRI, Karnal	729.2		8949.10/-	2.58

## 6. Banana (2014-15)

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	Lower plant density	Modified high density planting in Banana	02	<b>Technology option 1 (Farmer's practice) :</b> Square method 2.7 x 2.7 m spacing	1. Bunch weight (kg) 2. No. of Hands in the bunch 3. No. of fingers in the hand	1. 32 2. 14 3. 29 4. 12	<ul style="list-style-type: none"> <li>Yield was significantly higher in paired row planting</li> <li>In paired row planting delayed maturity was</li> </ul>	<ul style="list-style-type: none"> <li>Even though the yield was better the market price was very low hence farmer get less profit</li> </ul>	--	--
					<b>Technology option :</b> Square method 1.8 x 1.8 m spacing	4. Months to Maturity	1. 28 2. 12 3. 31 4. 11			--	--

					<b>Technology option 3:</b> Paired row with zig zag method 1.2 x 1.2 x 2 m spacing		1.28 2.12 3.30 4.14	observed		--	--
--	--	--	--	--	--	--	------------------------------	----------	--	----	----

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<b>Technology Assessed</b>	<b>Source of Technology</b>	<b>Production</b>	<b>Unit</b>	<b>Net Return (Rs. / unit)</b>	<b>BC Ratio</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>Technology option 1 (Farmer's practice) :</b>	--	362.5	q/ha	53334/-	1.61
<b>Technology option 2</b>	UAS (B)	830		107000/-	1.47
<b>Technology option 3</b>	NRC on Banana (Trichi)	1404		178267/-	1.46

## 7. Dairy Animals (2014-15)

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
Dairying	Semi intensive	Pre and post partum uterine prolapse in pregnant dairy animals	Alleviation of reproductive problem (uterine prolapse) in dairy animals through balanced nutrition	12	<b>Technology option 1 (Farmer's practice) :</b> Feeding cakes/brans along with dry roughages	1.Pre & post partum uterine prolapse 2.ROP 3.Parturition 4.Mastitis	1. Observed both pre/post partum 2. Present 3. Assisted 4. Observed in two animals				
					<b>Technology option 2:</b> Compounded cattle feed with roughages		1. Prepartum prolapse in one animal observed 2. Observed in two animals 3. Normal 4. Not observed				
					<b>Technology option 3:</b> Compounded cattle feed + ASMM + Dewormer + Calcium tonic		1. Not observed 2. No ROP 3. Normal 4. Not observed				

Contd..

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) :	--	--	Trial is going on	--	--
Technology option 2	KVAFSU, Bidar	--		--	--
Technology option 3	NIANP (B)	--		--	--

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

**1. Rice**

**1 Title of Technology Assessed:** Assessment of various methods of urea application in paddy with an emphasis on nitrogen use efficiency.

**2 Problem Definition:** Imbalanced nutrient management

**3 Details of technologies selected for assessment:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
No soil test based fertilizer application. No use of boron	RDF (100:50:50 N: P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) Application 50% N&K and 100% P as Basal. Top dressing of 25 %N at 25-30 DAT and 25%N and 50% K at 50 DAT	RDF (100:50:50 N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) top dressing of nitrogen through Neem Coated Urea	RDF (100:50:50 N: P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O /ha) top dressing of nitrogen through urea blended with wet soil.

**4 Source of technology:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
--	UAS (B)	UAS (B) & IARI, New Delhi	UAS (B)

**5 Production system and thematic area:** Irrigated and Integrated Nutrient Management

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

Technology options	Parameter		
	Nitrogen use efficiency (kg/kg)	Test weight (g/1000 seeds)	Yield (q/ha)
Technology Option – 1	48.44	24.48	60.83
Technology Option – 2	60.54	25.59	60.57
Technology Option – 3	62.91	26.42	62.91
Technology Option – 4	63.39	26.13	63.39

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

Technology is very useful

**8. Final recommendation for micro level situation: --**

**9. Constraints identified and feedback for research:** Find response of paddy to different rates of boron

**10. Process of farmers' participation and their reaction:** Technology is very effective in field level.

**2. 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 – 1	Technology Option – 2	Technology Option – 3
Local seeds	Seed-SIA-2644	Seed-HMT-100-1

**4 Source of technology:**



Technology Option – 1	Technology Option – 2	Technology Option – 3
--	UAS (R)	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	70.5	9.7	8.7
Technology Option – 2	108.7	21.9	14.5
Technology Option – 3	8.7	14.5	13.8

**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 rainfed conditions.

**8. Final recommendation for micro level situation:** --

**9. Constraints identified and feedback for research:** Seed availability 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

### 3. Dolichos bean

1 **Title of Technology Assessed:** Varietal assessment in Dolichos Bean for higher yield

2 **Problem Definition:** Low yield potential of existing local varieties

3 **Details of technologies selected for assessment:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
Nyamathi local	Hebbal Avare-3	Hebbal Avare-4	Arka Sambram

4 **Source of technology:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
--	UAS,Bangalore	UAS,Bangalore	ICAR-IIHR,Bangalore

5 **Production system and thematic area:** Irrigated and Varietal Assessment

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

Technology options	Parameter			
	Germination (%)	Plant Height (cm)	Number of Pods (Number)	Yield (t/ha)
Technology Option – 1	88	58	191	7.16
Technology Option – 2	94	62	226	10.00
Technology Option – 3	94	63	239	10.90
Technology Option – 4	95	65	244	13.66

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

Performance of Arka Sambram variety is better compare to other varieties. Market price was better in HA4 compare to other varieties.

**8. Final recommendation for micro level situation:** Arka Sambram can be recommended under protective irrigated conditions.**9. Constraints identified and feedback for research:** Availability of seed material and occurrence of sucking insects**10. Process of farmers' participation and their reaction:** Performance of Arka Sambram variety is better compare to other varieties. Market price was better in HA4 compare to other varieties.**4. Banana****1 Title of Technology Assessed:** Assessment of different molecules for Banana Skipper management**2 Problem Definition:** Banana skipper**3 Details of technologies selected for assessment:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
Spray with chloropyriphos @2ml/l	Spraying with Flubendiamide 48 SC @0.25ml/l (for Paddy Leaf Folder)	Spraying Chlorantraniliprole 20 SC (Coragen 20SC) @ 0.3ml/l (for Paddy Leaf Folder)	Hand collection and destroying

**4 Source of technology:**

Technology Option – 1	Technology Option – 2	Technology Option – 3	Technology Option – 4
--	UAS,Bangalore	KAU	--

**5 Production system and thematic area:** Irrigated and Integrated Pest Management**6 Performance of the Technology with performance indicators:**

Technology options	Parameter		
	Larval mortality (%)	Freshly damaged leaves @ 15 & 30 DAS (%)	Yield (t/ha)
Technology Option – 1	Harvesting is in progress		
Technology Option – 2			
Technology Option – 3			
Technology Option – 4			

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

8. Final recommendation for micro level situation: --

9. Constraints identified and feedback for research: --

10. Process of farmers' participation and their reaction: --

## 5. 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
Technology Option – 1	Feeding dairy animals with paddy straw along with brans/cakes
Technology Option – 2	Feeding dairy animals with urea treated paddy straw along with compounded cattle feed and vitamin mineral mixture
Technology Option – 3	Feeding dairy animals with urea treated paddy straw along with grain mixture and cattle feed and vitamin mineral mixture

4 **Source of technology:**

Technology options	Source of technology

<b>Technology Option – 1</b>	--
<b>Technology Option – 2</b>	KVAFSU, Bidar
<b>Technology Option – 3</b>	NIANP, Bangalore

**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./90 days)	Milk Yield (Litres/90 days)
Technology Option – 1	1.024	3258/-	394
Technology Option – 2	1.027	5273.10/-	612
Technology Option – 3	1.027	5634.10	729.2

**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 is using urea treated paddy straw, sufficient quantity of energy should be supplemented in the farm 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.

## 6. Banana (2014-15)

**1 Title of Technology Assessed:** Modified high density planting in Banana.

**2 Problem Definition:** Lower plant density resulting in lower productivity of the crop.

**3 Details of technologies selected for assessment:**

Technology options	Details of technology
Technology Option – 1	Square method 2.7 x 2.7 m spacing
Technology Option – 2	Square method 1.8 x 1.8 m spacing
Technology Option – 3	Paired row with zig zag method 1.2 x 1.2 x 2 m spacing

#### 4 Source of technology:

Technology options	Source of technology
Technology Option – 1	--
Technology Option – 2	UAS (B)
Technology Option – 3	NRC on Banana (Trichi)

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

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

Technology options	Parameter				
	Average Bunch Weight(kg)	No. of hands/Bunch	No. of fingers /Hand	Months to Maturity	Yield/ha (q/ha)
Technology Option – 1	32	14	29	12	362.5
Technology Option – 2	28	12	31	11	830
Technology Option – 3	28	12	30	14	1404

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

Because of high plant population per unit area the yield was high.

#### 8 Final recommendation for micro level situation: It can be tried only in G9 variety not in other varieties.

#### 9 Constraints identified and feedback for research: Noticed delayed maturity of bunches. Occurrence of pest and diseases is more in high density planting

#### 10 Process of farmers' participation and their reaction: Good response from the farmer about the technology and it can be scale up

**7. Dairying (2014-15)**

**1 Title of Technology Assessed:** Alleviation of reproductive problems (uterine prolapse) in dairy animals through balanced nutrition.

**2 Problem Definition:** Farmers are not feeding their dairy animals based on the nutrients requirement. They are feeding their animal with the available feeding stuffs during lactation period only. During dry period they are not feeding compounded feeds. This is resulting in the deficiencies of both major and micro nutrients leading to reproductive problems especially uterine prolapse, uterine infections in pregnant animals.

**3 Details of technologies selected for assessment:**

Technology options	Details of technology
Technology Option – 1	Feeding cakes/brans along with dry roughages
Technology Option – 2	Compounded cattle feed with roughages
Technology Option – 3	Compounded cattle feed + ASMM + Dewormer + Calcium tonic

**4 Source of technology:**

Technology options	Source of technology
Technology Option – 1	--
Technology Option – 2	KVAFSU, Bidar
Technology Option – 3	NIANP, Bangalore

**5 Production system and thematic area:** Semi intensive mixed dairy farming. Nutrition management

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

Technology options	Parameter			
	Pre & Post partum uterine prolapsed	ROP	Parturition	Mastitis
Technology Option – 1	Observed both pre & post partum prolapsed	Present	Assisted	Observed in 2 animals
Technology Option – 2	Pre partum prolapsed observed in one animal	Observed in 2 animals	Normal	Not observed
Technology Option – 3	Not observed	No ROP	Normal	Not observed

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

If balanced nutrition is provided to milch animals during the gestation period reproductive problems are minimal.

- 8. Final recommendation for micro level situation:** Farmer should adopt balanced feeding methods as per the National Research Council Standards.
- 9. Constraints identified and feedback for research:** Weather only energy and mineral deficiency causes this condition or any hormone role is there in this need to be established.
- 10. Process of farmers' participation and their reaction:** Farmers are actively involved in the feeding trial and integrated management of pregnant dairy animals. Farmers are convinced that proper management of milch animals especially by adopting balanced nutrition uterine prolapsed/eversion of uterine can be avoided and milk production improved.

#### 4.D1. Results of Technologies Refined

##### Results of On Farm Trial

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

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)					
Technology option 2					
Technology option 3					



**4.D.2. Details of each On Farm Trial:**

1. Title of Technology refined
2. Problem Definition
3. Details of technologies selected for refinement
4. Source of technology
5. Production system and thematic area
6. Performance of the Technology with performance indicators
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8. Final recommendation for micro level situation
9. Constraints identified and feedback for research
10. Process of farmers participation and their reaction

**PART V - FRONTLINE DEMONSTRATIONS****5.A. Summary of FLDs implemented during 2015-16**

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Oilseeds	--	--	--	--	--	--	--	--	--	--	--	--	--
2	Pulses	Rainfed	Rabi 2015-16	Chickpea	Variety	--	ICM	<ul style="list-style-type: none"> <li>• Use of HYV JG-11 @ 62.5 kg/ha</li> <li>• Seed treatment with <i>Trichoderma</i> @4gm/kg of seed and soil application @ 5kg/ha</li> <li>• Soil application of</li> </ul>	10	10	--	25	25	--

								PSB, Rhizobium and VAM @2.5 kg/ha • Use of trap crop coriander or Jowar • Use of bird perches @ 25/ha • Use of pheromone traps @10/ha • Spray with need based insecticides						
3	<b>Cereals</b>	Irrigated	Kharif 2015-16	Rice	Variety	Kauvery Sona	ICM	• Raising of seedlings in the pro-trays, Mechanized transplanting • Weeding through cono weeder • Power operated sprayers • Mechanized harvesting.	06	06	--	15	15	--

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	Cereals	Irrigated	Kharif 2015-16	Rice	Variety	Kauvery Sona	IPDM	<ul style="list-style-type: none"> <li>• Green manure crops. (Diancha/Sunhemp-25 kg/ha.)</li> <li>• Seed treatment with Carbendizim @ 4gm/kg of seed</li> <li>• Soil application of Azospirillum, PSB and VAM @ 2.5 kg</li> <li>• Spraying with neem oil @ 3ml/l in nersery</li> <li>• Clipping of seedlings during transplanting</li> <li>• Leaving one row of gap for every 3-4 m of transplanting.</li> <li>• Removal of weeds around bunds and use of recommended dose of fertilizers.</li> <li>• Soil application of Pseudomonas fluorescence @5kg/ha after 30 DAS</li> <li>• Installation of funnel traps @10/ha</li> <li>• Drain out excess water immediately after notice of pests.</li> <li>• Need based spray with Trycyclazole and Buprafazin</li> </ul>	06	06	05	10	15	--
		Rainfe	Kharif	Maize+Re	Private	BRG-	ICM	• High yielding	04	04	02	08	10	--

		d	2015-16	dgram		2		Intercropping with pulses <ul style="list-style-type: none"> <li>• Seed treatment with bio-fertilisers</li> <li>• Plant protection measures for pod borer (Phermone traps)</li> <li>• Neem based pesticides and Chemicals)</li> </ul>						
--	--	---	---------	-------	--	---	--	--	--	--	--	--	--	--

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	<b>Cereals</b>	Rainfed	Rabi 2015-16	Sorghum	SPV-2217	--	ICM	<ul style="list-style-type: none"> <li>• HYV variety SPV-2217</li> <li>• Use of micronutrients, PSB, Azospirillum</li> </ul>	04	04	--	10	10	--
4	<b>Millets</b>	Rainfed	Kharif 2015-16	Ragi	ML-365	--	ICM	<ul style="list-style-type: none"> <li>• Medium duration variety (ML-365 (5 kg/acre))</li> <li>• Seed treatment with biofertilizers (1kg)</li> <li>• Spraying of water soluble fertilizers 19:19:19@40 DAS</li> </ul>	08	08	01	19	20	--
		Rainfed	Kharif 2015-16	Ragi	GPU-28	--	ICM	<ul style="list-style-type: none"> <li>• HYV variety GPU-28</li> <li>• Use of micronutrients PSB, Azospirillum</li> <li>• Use of water soluble fertilizers 19:19:19 spray</li> </ul>	04	04	01	09	10	--
		Rainfed	Kharif	Foxtail	HMT-	--	ICM	<ul style="list-style-type: none"> <li>• HYV variety</li> </ul>	04	04	01	09	10	--

		d		millet	100-1			HMT100-1 • Use of micronutrients, PSB, Azospirillum • Use of water soluble fertilizers (19 all)						
5	Vegetables	Irrigated	Rabi 2015-16	Dolichos bean	Arka Amogh	--	ICM	• Use of Arka Amogh as inter crop in young Arecanut gardens	01	01	--	05	05	--
		Irrigated	Rabi 2015-16	Chilli	--	Shivam	ICM	• Soil test based fertilizer application • Application of bio fertilizers • Spraying imidachloprid 17.8 SL @ 0.5 ml/L & Acephate 1g/L against sucking pests • Spraying of Vegetable special	02	02	--	05	05	--
		Irrigated	Rabi/Summer 2014-15	Tomato	--	Arka Rakshak	ICM	• Demonstration of triple disease resistant hybrid	06	06		15	15	--
6	Flowers	--	--	--	--	--	--	--	--	--	--	--	--	--
7	Ornamental	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
8	Fruit	Irrigated	Rabi 2015-16	Banana	Grand naine (G-9)	--	IDM	• Removal of affected leaves and burning • Planting of seedlings in recommended	02	02	01	04	05	--

								spacing (6x6). <ul style="list-style-type: none"> <li>• Adaptation of drainage system</li> <li>• Spray with propiconozol (1ml/L) and carbendizim +mancogeb (2gm/l)</li> <li>• Repeat the spray depending upon incidence</li> <li>• Soil application of trichoderma (12.5 kg/ha)</li> </ul>						
8	<b>Spices and condiments</b>	--	--	--	--	--	--	--	--	--	--	--	--	--
9	<b>Commercial</b>	Irrigated	Rabi 2015-2016	Sugarcane	CO-86032	--	ICM	<ul style="list-style-type: none"> <li>• Soil test based fertilizer application</li> <li>• Transplanting of single eye bud chips</li> <li>• Paired row planting and drip irrigation with fertigation</li> <li>• Need based plant protection measures</li> <li>• Removal of top shoot at 2-3 leaves stage</li> <li>• Removal of older leaves at 5th and 7th month</li> </ul>	1.6	1.6	--	--	--	--
10	<b>Medicinal and aromatic</b>	--	--	--	--	--	--	--	--	--	--	--	--	--

11	<b>Fodder</b>	Irrigated	Kharif 2015-16	Mixed fodder crop	Napier X + MP Charry Jowar + Lucerne + Chogache	--	ICM	<ul style="list-style-type: none"> <li>• Growing of leguminous and non-leguminous fodder crops (Fodder cafeteria establishment)</li> </ul>	01	01	--	05	05	--
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12	<b>Plantation</b>	Irrigated	Kharif 2015-16	Arecanut	Channagiri Local	--	ICM	<ul style="list-style-type: none"> <li>• Use of green manure crops as intercrops</li> <li>• Use of Organic manures and recommended dose of fertilizers</li> <li>• Method of fertilizer application</li> <li>• Use of drainage in undrained soils</li> <li>• Management of pests and Diseases</li> </ul>	01	01	01	04	05	--
		Irrigated	Rabi 2015-16	Coconut Drumstick	Arsikere Tall KDM-1	--	ICM	<ul style="list-style-type: none"> <li>• Growing drumstick as intercrop in interspace between Coconut gardens</li> <li>• ICM in Coconut</li> </ul>	04	04	01	09	10	--
13	<b>Fibre</b>	Rainfed	Kharif 2015-16	Cotton	--	Bt	ICM	<ul style="list-style-type: none"> <li>• Maintaining Proper spacing</li> <li>• Spraying imidachloprid 17.8 SL @ 0.5 ml/L</li> </ul>	08	08	10	10	20	--

								against sucking pests <ul style="list-style-type: none"> <li>• Spraying of 1% MgSO<sub>4</sub> + 1% KNO<sub>3</sub> at 90 and 110 DAS and Spraying of planofix (1ml/4.5 l of water) at flowering stage</li> </ul>						
14	<b>Dairy</b>	--	2015-16	Cows	HFx	--	INM	<ul style="list-style-type: none"> <li>• Feeding animals with total mixed ration</li> </ul>	05	05	--	05	05	--
15	<b>Poultry</b>	--	--	--	--	--	--	--	--	--	--	--	--	--
16	<b>Rabbitry</b>	--	--	--	--	--	--	--	--	--	--	--	--	--
17	<b>Pigerry</b>	--	--	--	--	--	--	--	--	--	--	--	--	--
18	<b>Sheep and goat</b>	--	2015-16	Sheep & Goat	Local	--	INM	<ul style="list-style-type: none"> <li>• Balanced feeding and total deworming in small ruminants</li> </ul>	50 (10 Sheep/ demo)	50 (10 Sheep/ demo)	02	03	05	--
19	<b>Duckery</b>	--	--	--	--	--	--	--	--	--	--	--	--	--
20	<b>Common carps</b>	--	--	--	--	--	--	--	--	--	--	--	--	--



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
21	Mussels	--	--	--	--	--	--	--	--	--	--	--	--	--
22	Ornamental fishes	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Oyster mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--
24	Button mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--
25	Vermicompost	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Sericulture	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Apiculture	--	--	--	--	--	--	--	--	--	--	--	--	--
28	Implements	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Others (specify)	--	--	--	--	--	--	--	--	--	--	--	--	--

## 5.A. 1. Soil fertility status of FLDs plots during 2015-16

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Oilseeds	--	--	--	--	--	--	--	--	--	--	--	--
2	Pulses	Rainfed	Rabi 2015-16	Chickpea	JG-11	--	ICM	Integrated crop management in Bengalgram (NFSM)	Rabi 2015-16	L	M	H	Maize
3	Cereals	Irrigated	Kharif 2015-16	Rice	Kauvery Sona	--	ICM	Mechanization in Paddy	Kharif 2015-16	M	L	L	Rice
		Irrigated	Kharif 2015-16	Rice	Kauvery Sona	--	IPDM	Integrated crop management in paddy	Kharif 2015-16	L	M	H	Rice
		Rainfed	Kharif	Maize+	BRG-2	Private	ICM	Redgram as Intercrop	Kharif	M	H	H	Maize

		d	2015-16	Redgram				in Cereals - BRG-2	2015-16				
		Rainfed	Rabi 2015-16	Sorghum	SPV-2217	--	ICM	ICM in Sorghum (SPV-2217)	Rabi 2015-16	M	M	M	Maize/ Groundnut/ Tomato
4	<b>Millets</b>	Rainfed	Kharif 2015-16	Ragi	ML-365	--	ICM	Integrated Crop Management in HYV of Ragi (ML-365)	Kharif 2015-16	M	L	L	Cotton
		Rainfed	Kharif 2015-16	Ragi	GPU-28	--	ICM	Integrated Crop Management in Ragi (GPU-28)	Kharif 2015-16	L	M	M	Ragi/ Foxtail millet
		Rainfed	Kharif 2015-16	Foxtail millet	HMT-100-1	--	ICM	ICM in Navane in late Kharif- HMT-100-1	Kharif 2015-16	L	M	M	Ragi/ Foxtail millet
5	<b>Vegetables</b>	Irrigated	Rabi 2015-16	Dolichos Bean	Arka Amogh	--	ICM	Dolichos Bean (Arka Amogh) as Intercrop in young Arecanut gardens	Rabi 2015-16	M	M	H	Arecanut
		Irrigated	Rabi 2015-16	Chilli	--	Shivam	ICM	Integrated Crop Management in Chilli	Rabi 2015-16	L	M	M	Maize
		Irrigated	Rabi/ Summer 2014-15	Tomato	--	Arka Rakshak	ICM	Demonstration of ripple disease resistant hybrid	Rabi/ Summer 2014-15	L	M	M	Maize
6	<b>Flowers</b>	--	--	--	--	--	--	--	--	--	--	--	

7	<b>Ornamen tal</b>	--	--	--	--	--	--	--	--	--	--	--	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>1 1</b>	<b>1 2</b>	<b>1 3</b>	<b>14</b>
8	<b>Fruit</b>	Irrigate d	Rabi 2015- 16	Banana	Grand naine (G-9)	--	IDM	Integrated management of sigatoka leaf spot in Banana	Rabi 2015- 16	L	M	H	--
9	<b>Spices and condimen ts</b>	--	--	--	--	--	--	--	--	--	--	--	--
10	<b>Commerc ial</b>	Irrigate d	Rabi 2015- 16	Sugarca ne	CO- 86032	--	ICM	Sustainable Sugarcane Initiative with CO- 86032	Rabi 2015- 16	L	M	M	Maize
11	<b>Medicinal and aromatic</b>	--	--	--	--	--	--	--	--	--	--	--	--
12	<b>Fodder</b>	Irrigate d	Kharif 2015- 16	Mixed fodder crop	Napier X + MP Charry Jowar + Lucerne + Chogache	--	ICM	Establishment of fodder cafeteria	Kharif 2015- 16	M	M	L	Ragi & Maize

13	<b>Plantation</b>	Irrigated	Kharif 2015-16	Areca nut	Channagiri Local	--	ICM	Integrated Management of Areca nut	Crop in	Kharif 2015-16	L	M	M	Areca nut
		Irrigated	Rabi 2015-16	Coconut Drumstick	Arsikere Tall KDM-1	--	ICM	Drumstick (KDM-1) as inter crop in Coconut gardens		Rabi 2015-16	L	M	M	Coconut
14	<b>Fibre</b>	Rainfed	Kharif 2015-16	Cotton	--	Bt	ICM	Integrated Management in Cotton	Crop in	Kharif 2015-16	L	M	M	Maize

## 5.B. Results of Frontline Demonstrations

### 5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
							H	L	A										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>Oilseeds</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Pulses</b>																			
Chickpea	Integrated crop management in Bengalgram (NFSM)	JG-11	--	Rainfed	25	10	9.8	5.10	6.9	4.98	38.55	11200	33120	21920	2.94	9635	23904	14269	2.46
<b>Cereals</b>																			

Rice	Mechanization in Paddy	Kauvery Sona	--	Irrigated	15	06	59.3	56.8	57.98	54.20	6.82	45250	101325	56075	2.24	50300	94850	44550	1.89
Rice	Integrated crop management in paddy	Kauvery Sona	--	Irrigated	15	06	64.27	60.34	62.60	54.10	15.17	46750	106420	59670	2.28	49500	91966	42466	1.86
Maize + Redgram	Redgram as Intercrop in Cereals - BRG-2	BRG-2	Private	Rainfed	10	04	67.1	61.3	64.29	54.0	18.90	42500	88728.5	46228.5	2.08	40010	74575.2	34656.2	1.86
Sorghum	ICM in Sorghum (SPV-2217)	SPV-2217	--	Rainfed	10	04	13.9	11.7	12.80	8.78	45.33	18010	29348	11338	1.63	13560	20194	6634	1.49
<b>Millets</b>																			
Ragi ML-365	Integrated Crop Management in HYV of Ragi (ML-365)	ML-365	--	Rainfed	20	08	27.8	22.9	25.13	20.6	22.22	23300	62773.5	39473.5	2.69	22900	51256.1	28356.1	2.24
Ragi GPU-28	Integrated Crop Management in Ragi (GPU-28)	GPU-28	--	Rainfed	10	04	21.4	16.5	18.6	15.29	21.57	21234	42780	21546	2.01	18950	26008.3	7058.3	1.37

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Foxtail millet HMT-100-1	ICM in Navane in late Kharif-HMT-100-1	HMT-100-1	--	Rainfed	10	04	13.2	10.5	12.07	8.92	35.43	14627	27772.5	13145.5	1.90	14642	20520.6	5878.6	1.40
<b>Vegetables</b>																			
Dolichos bean	Dolichos Bean (Arka Amogh) as Intercrop in young Arecanut gardens	Arka Amogh	--	Irrigated	05	01	11.8	9.8	10.03	7.62	44.88	71033	165600	94567	2.34	61208.6	114300	53091.4	1.86
Chilli	Integrated Crop Management in Chilli	--	Shivam	Irrigated	05	02	Demonstration is going on												
Tomato 2014-15	Demonstration of ripple disease resistant hybrid	--	Arka Raksak	Irrigated	15	06	69.11	47.73	61.62	52.03	18.43	45915.4	154062	108146	3.38	52596.3	130070	77473.6	2.48
<b>Flowers</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Ornamental</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Fruit</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Banana	Integrated management of sigatoka leaf spot in Banana	Grand naine (G-9)	--	Irrigated	05	02	Demonstration is going on													
<b>Spices and condiments</b>																				
<b>Commercial</b>																				
Sugarcane	Sustainable Sugarcane Initiative with CO-86032	CO-86032	--	Irrigated	04	1.6	Not implemented													
<b>Fibre crops like cotton</b>																				
Cotton	Integrated Crop Management in Cotton	--	Bt	Rainfed	20	08	23.5	11.86	17.93	16.67	7.55	25600	66365	40765	2.59	26300	61705	35405	2.34	
<b>Medicinal and aromatic</b>			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Fodder</b>																				

Fodder	Establishment of fodder cafeteria	Napier X + MP Charry Jowar + Lucerne + Choga che	--	Irrigated	05	01	40.8	33.2	37.2	50.5	--	15000	30480	15480	2.03	15000	25250	10250	1.68
<b>Plantation</b>																			
Areca nut	Integrated Crop Management in Areca nut	Channagiri Local	--	Irrigated	05	01	Demonstration is going on												
Coconut	Drumstick (KDM-1) as intercrop in Coconut gardens	Arsikere Tall KDM-1	--	Irrigated	10	04	Demonstration is going on												
<b>Fibre</b>																			

**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
Rice (Mechanization)	Seed rate /ha	20-25 kg	62 kg
	Germination of seeds (%)	99.0	95
	Fertilizer NPK kg/ha	100:50:50	10-12 q
	Plant Height (cm)	73.2	71.2



	No of hills/sqm	18-22	25-30
	Tillers/hill	39.7	27.5
	Transplanting	4 No. /ha (8 hour)	15 No./ha (16 hours)
	Weeding	2 No./ha (2 Days)	10 No./ha (2 Days)
	Pest incidence %	5.5	7.9
Paddy	Plant height (cm)	92.4	88.7
	No of tillers/hill (No.)	25.6	22.4
	Incidence of blast (%)	5.50	14.5
	Incidence of stem borer (%)	4.75	17.5
	Incidence of brown plant hopper (%)	6.25	15.5
Maize	Plant height of Maize (cm)	177.33	171.4
	Number of rows/cob (No.)	14.24	14.18
	Plant height of redgram (cm)	180.80	--
	Pod borer incidence in Redgram (%)	4.7	--
Sorghum	Plant height (cm)	180.68	165.05
Ragi (ML-365)	Plant height (cm)	113.5	97.6
	No. of tillers/plant	5.6	4.1
	No. of fingers/head	8.7	5.1
	1000 seed weight (g)	24.2	17.5
Ragi (GPU28)	Fodder yield (q/ha)	32.39	26.28
	Plant height (cm)	83.38	76.37
	No. of fingers/head	5.1	4
Foxtail millet	Plant height (cm)	103.7	76.6
	Panicle Length (cm)	18.39	11.26
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Cotton	Square dropping (%)	12.3	7.7
	Leaf reddening (%)	17.8	6.1
	Sucking pests (No)	22.0	7.8
Dolichosbean	Germination (%)	92.4	90.4
	Plant Height(cm)	63.0	58.8
Tomato (2014-15)	No. of fruits/plant	165	115
	Days to first flowering	45	52

	Plant height, cm	95	78
	Percent of fruit cracking (%)	4.8	14.75
	Bacterial wilt (%)	4.9	16.36
Chickpea	Plant height (cm)	44.80	39.84
	No of branches	6.50	4.78
	No. of pods/plant	47.21	38.74
	Incidence of wilt (%)	5.25	14.97
	Incidence of pod borer (%)	4.75	16.38

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

Type of livestock	Name of the technology demonstrated	Breed	No. of Demos	No. of Units	Yield				% Increase	*Economics of demonstration Rs./day)				*Economics of check (Rs./day)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
					H	L	A										
<b>Dairy</b>	Integrated management of dairy animals for better performance (Feeding total mixed ration)	Dairy Cow (HF-x)	01	05	10.12 milk in l/day	8.37 milk in l/day	9.104 milk in l/day	7.7 milk in l/day	15.30	151.5	227.5	76.08	1.50	135	192.5	57.5	1.42
<b>Poultry</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Rabbitry</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Pigerry</b>																	

<b>Sheep and goat</b>	Balanced feeding and total deworming in small ruminants for better body weight gain	Bellar y Local	10	05	49 Shee p Body weig ht in kg/60 days	37 Shee p Body weig ht in kg/60 days	44.3 Shee p Body weig ht in kg/60 days	21.9 Shee p initial Body weig ht in kg	50.6	4561 per shee p	9509.5 per shee p	4909 per shee p	2.08	3000 per shee p	5475 per shee p	2475 per shee p	1.82
<b>Duckery</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Others (pl.specif y)</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 in relation to technology demonstrated		
	Parameter with unit	Demo	Check
Dairy animals	Milk quality (CLR)	1.027	1.024
Sheep and Goat	Animals attaining puberty (maturity)	94% of the animals shown maturity during the period	Only 40 % of the animals shown maturity

### 5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units / Area (m <sup>2</sup> )	Yield (q/ha)			% Increase	*Economics of demonstration Rs./unit) or (Rs./m <sup>2</sup> )				*Economics of check Rs./unit) or (Rs./m <sup>2</sup> )				
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
					H	L	A										
Common carps																	
Mussels																	

Ornamental fishes																	
Others (pl.specify)																	

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

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

**5.B.4. Other enterprises**

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m <sup>2</sup> }	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m <sup>2</sup> )				*Economics of check (Rs./unit) or (Rs./m <sup>2</sup> )				
					Demo		Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L											A
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 the implement	Cost of the implement	Name of the technology demonstrated	No. of Demo	Area covered under	Labour requirement in Mandays	% save	Savings in labour	*Economics of demonstration (Rs./ha)	*Economics of check (Rs./ha)

	in Rs.			demo in ha	Demo	Check		(Rs./ha)	Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net 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

##### Bengalgram

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	33	Preliminary visit for farmers selection
2	Training	04	76	Importance of seed treatment with trichoderma Method demonstration on pheromone trap installation Method demonstration on spray solution preparation Identification of pod borer and wilt incidence
3	Field visit to FLD plots	06	101	Diagnostic visit to paddy plot
4	Method demonstration	03	61	Seed treatment with biofertilizers, trap installation and spray solution preparation
5.	News paper coverage	01	--	Field day on ICM in bengalgram
6.	Field day	01	30	Experience sharing of farmers

##### Paddy (IPDM)

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks

1	Group discussion	01	18	Preliminary visit for farmers selection
2	Training	02	37	Integrated management of stem borer in rice Integrated management of brown plant hopper and blast in rice
3	Field visit to FLD plots	05	57	Diagnostic visit to paddy plot
4	Method demonstration	03	34	Trap installation and spraying solution preparation
5.	News paper coverage	01	--	Seedling treatment with biofertilizers
6.	Field day	01	19	Experience sharing of farmers

**Paddy (Mechanization)**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	30	<b>30-07-2015:</b> Farmers selection for the transplanting of paddy through machine
2	Training	03	65	<b>30-7-2015:</b> Advantages of mechanised transplanting in paddy <b>12-08-2015:</b> Role of bio fertilisers in improving in paddy yield. <b>4-09-2015:</b> Weeding through cono weeder
3	Field visit to FLD plots	08	223	<b>12-08-2015:</b> Follow up visit after transplanting through machine( shygale) <b>13-08-2015:</b> Land preparation and transplanting of paddy (Deverabellkere) <b>04-09-2015:</b> Field visit for stem borer incidence (shygale) <b>16-10-2015:</b> Follow up field visit to paddy plot at shygale and Kodihalli camp <b>27-10-2015:</b> Follow up field visit ot paddy plot at deverabelkere, <b>19-11-2015:</b> Field visit to mechanised transplanted plot during the field day along with farmers and officials. <b>3-12-2015:</b> Attended the harvesting and collected the observation at harvest
4	Method demonstration	03	39	<b>30-07-2015:</b> Feeding the trays to machine with proper spacing adjustment (Shygale) <b>13-08-2015:</b> Dipping of mats(Seedling) in bio fertiliser solution before transplanting. <b>4-09-2015:</b> cono weeder for weeding
5.	Media Coverage – E-TV, Annadatha	-	-	<b>News Paper coverage:</b> <b>14-8-2015:</b> Prajavani, Kannada bharathi and Vijayavani ( <b>Transplanting through machine</b> ) <b>07-09-2015 :</b> Prajavani and 09-09-2015: Janathavani ( <b>Conoweeder</b> ) <b>20-11-2015:</b> Prajavani, Vijayavani ( <b>Field day</b> ) <b>30-07-2015:</b> Importance of green manuring in paddy
6.	Field day	01	58	<b>19-11-2015:</b> Field day conducted at Shygale in collaboration with department of Agriculture (ADA, AO and AAO),Field facilitators and gramapanchayat members attended the programme.

**Maize+ Redgram**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	20	Selection of farmers for the FLD
2	Training	01	25	<b>2-09-2015:</b> Management of Pod borer through pheromone traps
3	Field visit to FLD plots	07	41	<b>2-09-2015:</b> Follow up field visit and suggested for maize harvesting-Tumbigere <b>7-09-2015:</b> Follow up field visit to siddanuru <b>15-10-2015:</b> Provided critical inputs against pod borer <b>26-10-2015:</b> Field visit, wilt problem in siddanur and Tumbigere and suggested measures. <b>3-11-2015:</b> Follow up field visit <b>7-12-2015:</b> Follow up visit for wilt problem <b>10-12-2015:</b> Follow up field visit to the redgram plot at Kondaji
4	Method demonstration	01	25	Installation of Pheromone trap for managing the pod borer
5.	Media Coverage – E-TV, Annadatha			<b>23-12-2015:</b> Vijay vani, Vijay Karnataka, and prajavani ( Field day) Tv talk: 13-11-2015: Management of pod borer and improved agronomic practices to improve Redgram yield after maize harvest.
6.	Field day	01	60	<b>23-12-2015:</b> On eve of Kissan samman Diwas – conducted field day in Collaboration with department of agriculture . JDA, Tahasildar, ADA,AO and AAO's attended the programme.

**Sorghum**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	1	10	For farmers selection
2	Training	1	10	Training on production technology of Jowar
3	Field visit to FLD plots	4	65	FLD follow up visits
4	Method demonstration	2	20	Method demonstration on seed treatment with bio fertilizers (Azospirillum and PSB) and water soluble fertilizer solution preparation and spray



**Ragi (ML-365)**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	32	Selection of farmers for FLD in collaboration with department of Agriculture, Harapanahalli.
2	Training	03	70	<b>27-07-2015:</b> Improved production technology in ragi <b>11-09-2015:</b> Importance of spraying of water soluble fertilisers <b>16-11-2015:</b> Seed production and grading for marketing.
3	Field visit to FLD plots	05	138	<b>14-08-2015-</b> Attended the sowing <b>11-09-2015-</b> Follow up field visits and good crop stand suggested for topdressing with urea and spraying of 19 all after 35 DAS <b>13-10-2015, 29-10-2015(</b> heavy rains) <b>16-11-2015-</b> Field visits and collected the observations <b>18-11-2015:</b> Attended the harvesting
4	Method demonstration	02	41	<b>14-08-2015:</b> Seed treatment with bio-fertilisers and sowing <b>11-09-2015:</b> spraying of 19 all water soluble fertilisers 35 DAS
5.	Media Coverage – E-TV, Annadatha	-	-	<b>News paper coverage:</b> <b>7-8-2015:</b> Kannada Bharathi <b>16-09-2015:</b> Janatha vani( Follow up visit) <b>18-09-2015:</b> Prajavani <b>17-11-2015:</b> Prajavani ( Field day) <b>TV-Programme:</b> <b>7-09-2015:</b> Importance of bio fertilisers (seed treatment) in ragi.
6.	Field day	01	27	<b>16-11-2016:</b> Conducted at Kadabagere, in collaboration with deoartment of agriculture (ADA,AO and AAO) . Mr. Ajjappa Progressive farmer shared his experience in field day

**Ragi (GPU-28)**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	1	28	Farmers selection
2	Training	2 (14-08-2015 and 11-9-2015)	31	Training on improved production practices and weed management
3	Field visit to FLD plots	4	51	FLD follow up visits (14-08-2015, 11-9-2015, 29-10-2015 and 16-11-2015)
4	Method demonstration	2	28	Method demonstration on seed treatment with bio fertilizers (Azospirillum and PSB) and water soluble fertilizer solution preparation and spray
5.	News paper coverage	1		06-11-2015 (Prajavani)
6.	Field day	16-11-2015	1	25

**Foxtail millet (HMT-100-1)**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	1	28	Farmers selection
2	Training	1	31	Training on improved production practices in Foxtail millet
3	Field visit to FLD plots	4	51	FLD follow up visits (14-08-2015, 11-9-2015, 29-10-2015 and 16-11-2015)
4	Method demonstration	2	28	Method demonstration on seed treatment with bio fertilizers (Azospirillum and PSB) and water soluble fertilizer solution preparation and spray
5.	Field day	16-11-2015	1	25

**Dolichosbean**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	08	Conducted to select farmers to implement the demonstration
2	Training	02	19	1. Production technology of Dolichos bean 2. Nutrient and water management in Dolichos bean
3	Field visit to FLD plots	06	--	Made Follow up visits to FLD plots at regular intervals.
4	Method demonstration	01	08	Seed treatment with trichoderma
5.	Media Coverage – E-TV, Annadatha	01		Newspaper coverage on use of technology

**Cotton**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	1	32	Preliminary visit for farmer selection
2	Training	3	43	<ul style="list-style-type: none"> <li>• Integrated crop management in cotton</li> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> </ul>
3	Field visit to FLD plots	5	20	Diagnostic field visits
4	Method demonstration	3	31	<ul style="list-style-type: none"> <li>• Spraying of insecticide</li> <li>• Spraying of magnesium sulphate and potassium nitrate</li> </ul>
5.	Field day	01		Experience sharing

**Fodder**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	12	Discussed about the feeding practices and fodder availability in the village.
2	Training	01	14	Conducted 1-day training programme on 'Balanced Feeding in the Dairy Animals' and the role of fodder in profitable training programme.

3	Field visit to FLD plots	02	16	Visited the FLD plots on 23-9-2015 and 21-12-2015
4	Method demonstration	01	05	Preparation of fodder root slips for transplanting.

**Dairy**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	15	Collected information on animal husbandry practices and feed resources in the village
2	Training	01	12	Conducted 1-day On-campus training programme on 'Balanced feeding and its importance in dairy animals.
3	Field visit to FLD plots	03	08	Collected data on milk production and feeding details.
4	Method demonstration	01	12	Provided skills on making homemade compounded feeds

**Sheep & Goat**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	12	Collected information on the feeding and other husbandry practices existing in the village for small ruminants rearing.
2	Training	01	11	Conducted On--campus training programme on 'Balanced Nutrition in Small Ruminants'
3	Field visit to FLD plots	03	08	Collected information on initial and monthly body weight gains
4	Method demonstration	01	12	Preparation and feeding of compounded diet for small ruminants

**Tomato (2014-15)**

Sl. No.	Activity	No. of activities organized	Number of participants	Remarks
1	Group discussion	01	12	Preliminary visit for farmer selection
2	Training	03	40	Importance of soil testing Integrated nutrient management in tomato

				Importance of micronutrient
3	Field visit to FLD plots	03	34	Diagnostic field visit
4	Method demonstration	01	16	Spraying of vegetable special
5.	Field day	01	10	Experience sharing

### PART VI – DEMONSTRATIONS ON CROP HYBRIDS

#### Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
					H	L	A										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>Cereals</b>																	
Bajra																	
Maize	Redgram as Intercrop in Cereals - BRG-2	Private	10	04	67.1	61.3	64.29	54.0	18.90	42500	88728.5	46228.5	2.08	40010	74575.2	34656.2	1.86
Paddy																	
Sorghum																	
Wheat																	
<b>Total</b>																	
<b>Oilseeds</b>																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	

<b>Total</b>																		
<b>Pulses</b>																		
Greengram																		
Blackgram																		
Bengalgram																		
Redgram																		
<b>Total</b>																		
<b>Vegetable crops</b>																		
Bottle gourd																		
Capsicum																		
Cucumber																		
Tomato	Demonstration of triple disease tolerant tomato hybrid Arka Rakshak	Arka Rakshak	15	06	69.11	47.73	61.62	52.03	18.43	45915.4	15406.2	10814.6	3.38	52596.3	13007.0	77473.6	2.48	
Chilli	Integrated Crop Management in Chilli	Shivam	05	02	Demonstration is going on													
Brinjal																		
Okra																		
Onion																		
Potato																		
Field bean																		
<b>Total</b>																		
<b>Commercial crops</b>																		

Sugarcane																	
Coconut																	
Cotton	Integrated Crop Managemen t in Cotton	Bt Ankur 3034	20	08	23. 5	11.8 6	17.9 3	16.6 7	7.55	25600	66365	40765	2.5 9	26300	61705	35405	2.3 4
<b>Total</b>																	
Fodder crops																	
Maize (Fodder)																	
Sorghum (Fodder)																	
<b>Total</b>																	

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

Area of training	No. of Courses	No. of Participants									
		General			SC/ST			Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	
<b>Crop Production</b>											
Weed Management											
Resource Conservation Technologies											
Cropping Systems											
Crop Diversification											
Integrated Farming											
Micro Irrigation/Irrigation											
Seed production											
Nursery management											
Integrated Crop Management											
Soil and Water Conservation											
Integrated Nutrient Management	1	2	17	19	0	8	8	2	25	27	
Production of organic inputs											
<b>Others</b>											
a) Seed treatment	1	15	0	15	0	0	0	15	0	15	
b) Bio fuel production and use of bioproducts											
<b>Horticulture</b>											
<b>a) Vegetable Crops</b>											
Production of low value and high volume crop											
Off-season vegetables											
Nursery raising											
Exotic vegetables											



1	2	3	4	5	6	7	8	9	10	11
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others a)Kitchen garden and terrace gardening	2	13	197	212	0	1	1	13	200	213
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	6	0	6	1	0	1	7	0	7
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others a)										
<b>d) Plantation crops</b>										
Production and Management technology	1	6	0	6	0	0	0	6	0	6
Processing and value addition										
Others 1. Dryland horticulture	1	41	0	41	8	0	8	47	0	47
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										

1	2	3	4	5	6	7	8	9	10	11
Others										
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management	1	6	0	6	3	0	3	9	0	9
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										
<b>Livestock Production and Management</b>										
Dairy Management	1	12	0	12	0	2	2	12	2	14
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										

1	2	3	4	5	6	7	8	9	10	11
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
<b>Others:</b> a) Preparation of vermicompost										
<b>Home Science/Women empowerment</b>										
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										
<b>Agril. Engineering</b>										
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										

1	2	3	4	5	6	7	8	9	10	11
<b>Plant Protection</b>										
Integrated Pest Management										
Integrated Disease Management	1	9	0	9	1	0	1	10	0	10
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
<b>Others a) Apiculture</b>										
<b>Fisheries</b>										
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 -1. Recent technologies in aquaculture										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										

1	2	3	4	5	6	7	8	9	10	11
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 –Bio-gas production	1	9	2	1	0	0	0	9	2	11
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (PUC students orientation)	2	62	15	19	2	1	3	64	136	200
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems	1	17	3	20	1	0	1	18	3	21
Others (Pl. specify)										
<b>TOTAL</b>	<b>14</b>	<b>198</b>	<b>356</b>	<b>554</b>	<b>16</b>	<b>22</b>	<b>38</b>	<b>214</b>	<b>378</b>	<b>592</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
<b>Crop Production</b>										
Weed Management	3	42	0	42	3	0	3	42	3	45
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation	1	17	0	17	2	0	2	19	0	19
Seed production										
Nursery management										
Integrated Crop Management	4	51	1	52	13	0	13	64	1	65
Soil and Water Conservation										
Integrated Nutrient Management	1	6	0	6	3	0	3	9	0	9
Production of organic inputs										
Others a) seed treatment	1	16	0	16	0	0	0	16	0	16
c) Mechanized transplanting in paddy	1	11	0	11	0	0	0	11	0	11
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	3	37	0	37	11	0	11	48	0	48
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	7	74	331	405	52	36	88	126	367	493
Other (Kitchen and Terrace garden										

1	2	3	4	5	6	7	8	9	10	11
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	2	0	2	7	0	7	9	0	9
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
<b>Others : a) Integrated nutrient management in banana</b>										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others										
<b>d) Plantation crops</b>										
Production and Management technology	1	11	0	11	3	0	3	14	0	14
Processing and value addition										
<b>Others</b>										
a) Intercropping in coconut and arecanut	1	16	0	16	0	0	16	0	16	
b) Green manuring										
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										
Others										

1	2	3	4	5	6	7	8	9	10	11
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
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										
<b>Livestock Production and Management</b>										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	25	0	25	1	0	1	26	0	26
Animal Disease Management										



1	2	3	4	5	6	7	8	9	10	11
Feed and Fodder technology										
Production of quality animal products										
Others										
<b>Home Science/Women empowerment</b>										
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										
<b>Agril. Engineering</b>										
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										
<b>Plant Protection</b>										

1	2	3	4	5	6	7	8	9	10	11
Integrated Pest Management	6	81	0	81	16	0	16	97	0	97
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others										
<b>Fisheries</b>										
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										
<b>Production of Inputs at site</b>										
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	1	4	0	4	15	0	15	19	0	19
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>33</b>	<b>393</b>	<b>332</b>	<b>725</b>	<b>126</b>	<b>36</b>	<b>162</b>	<b>519</b>	<b>368</b>	<b>887</b>

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

Area of training	No. of Courses	No. of Participants									
		General			SC/ST			Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming	1	14	0	17	7	0	7	21	0	21	
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											

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										
<b>Others.</b>										
I. Preparation for UAS and UAHS practical exams										
II. Ex- trainees sammelan for FOCT trainees										
III. Soil and water conservation										
<b>TOTAL</b>	1	14	0	17	7	0	7	21	0	21

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										

Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
<b>TOTAL</b>										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	60	0	60	0	0	0	60	0	60
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										
<b>Any other</b>										
a) Safe use of pesticide										
b) Technology transfer mechanism in Animal science										

c) Biofuel training to gram panchayath officials and elected members										
d) ICM in plantation crop										
e) Inland aquaculture										
<b>Total</b>	1	60	0	60	0	0	0	60	0	60



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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
<b>Any other a) Integrated farming system</b>										
<b>Total</b>										

## 7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	
<b>1</b>	<b>Crop production and management</b>											
1.a.	Increasing production and productivity of crops											
1.b.	Commercial production of vegetables											
<b>2</b>	<b>Production and value addition</b>											
2.a.	Dryland horticulture											
2.b.	Ornamental plants											
2.c.	Spices crops											
<b>3.</b>	<b>Soil health and fertility management</b>											
<b>4</b>	<b>Production of Inputs at site</b>											
<b>5</b>	<b>Methods of protective cultivation</b>											
<b>6</b>	<b>Others :</b>											
	a) Apiculture											
	b)Management of horticulture crops in delayed monsoon											
<b>7</b>	<b>Post harvest technology and value addition</b>											
7.a.	Processing and value addition											
7.b.	Others											
<b>8</b>	<b>Farm machinery</b>											
8.a.	Farm machinery, tools and implements											
8.b.	Others											
<b>9.</b>	<b>Livestock and fisheries</b>											
<b>10</b>	<b>Livestock production and management</b>											
10.a.	Animal Nutrition Management											
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
<b>11.</b>	<b>Home Science</b>										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics	2	40	12	52	28	12	40	68	24	92
12.b.	Others : 1.Group formation										
	2. Protection of Plant Varieties and Farmers Right Act										
	<b>Total</b>	2	40	12	52	28	12	40	68	24	92

#### Details of sponsoring agencies involved

1. Dhanuka Agritech Ltd., Bengaluru
2. CDB, Bengaluru and NRLM and Zilla Panchayath, Davanagere.
3. Department of Horticulture, Davanagere.
4. ASSIRD, Mysore and Zilla Panchayath, Davanagere

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	
<b>1</b>	<b>Crop production and management</b>											
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											
<b>2</b>	<b>Post harvest technology and value addition</b>											
2.a.	Value addition											
2.b.	Others											
<b>3.</b>	<b>Livestock and fisheries</b>											
3.a.	Dairy farming											
3.b.	Composite fish culture											
3.c.	Sheep and goat rearing											
3.d.	Piggery											
3.e.	Poultry farming											
3.f.	Others											
<b>4.</b>	<b>Income generation activities</b>											
4.a.	Vermi-composting											
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.											
4.c.	Repair and maintenance of farm machinery and implements											
4.d.	Rural Crafts											
4.e.	Seed production											
4.f.	Sericulture											
4.g.	Mushroom cultivation											
4.h.	Nursery, grafting etc.											

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training	2	50	0	50	9	1	10	59	1	60
4.k.	<b>Others:</b> Coconut climbing and plant protection										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others										
	<b>Grand Total</b>	<b>2</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>59</b>	<b>1</b>	<b>60</b>

**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	09	235	29
Animal health campaign	02	155 animals treated	
Kisan Mela	02	--	
Exhibition	01	--	--
Film Show	03	39	61
Method Demonstrations	20	354	50
Farmers Seminar	08	1230	53
Farm Science Club (DDFA)	09	278	14
Group meetings	01	08	01
Lectures delivered as resource persons	117	11870	1053
Newspaper coverage	59	--	--
Radio talks	09	--	--
TV talks	18	--	--
Popular articles	08	--	--
Scientific visit to farmers field	223	1488	243
Advisory over phone	685	685	--
Farmers visit to KVK	1525	1525	--
Diagnostic visits	55	431	136
Exposure visits	01	02	06
Ex-trainees Sammelan	01	27	--
Soil test campaigns	02	80	06
Meeting/workshops with extension officials	09	--	337
Celebration of Days	09	876	79

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS****9.A. Production of seeds by the KVKs**

<b>Crop category</b>	<b>Name of the crop</b>	<b>Variety</b>	<b>Hybrid</b>	<b>Quantity of seed (qtl)</b>	<b>Value (Rs)</b>	<b>Number of farmers</b>
Cereals (crop wise)	-					
Oilseeds	-					
Pulses						
Commercial crops	Coconut	Arasikere tall	-	1000 No.s	20,000/-	01
Vegetables	Drumstick	KDM-1	-	0.68	1,77,539.99	147
Flower crops						
Spices						
Fodder crop seeds	Sesbania			0.0425	1275/-	06
	Subabul			0.50	100/-	01
Fiber crops						
Forest Species						
Green manure	Sunhemp	Local	-	3.63	18150/-	10
	Velvet beans	Mucuna Spp	-	1.5	17099.99	35
	Diancha	-	-	0.75	3950/-	03
Others						
<b>Total</b>						



## 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	Tamarind	Local	--	4	140	02
Vegetable seedlings	Drumstick	PKM-1	--	9872	110395	63
Fruits	Mango	Alphaso	--	1695	84309.75	28
	Sapota	Cricket ball	--	02	6.0	01
	Lemon Grass	Local	--	08	80	02
	Lime	Local	--	1244	36559.31	28
	Jack	Local		1	100	01
Ornamental plants						
Medicinal and Aromatic	Aloevera	Local	--			
Plantation	Arecanut	Thirthahalli Local	--	05	100	01
Spices	Curry leaf	Local	--	21	514.98	05
	Black pepper	Paniyur-1	-	02	36	01
Tuber	--	--	--			

1	2	3	4	5	6	7
Fodder slip	Napier and Lucerne	-	--	7400	3100	02
Fodder cuttings	Guinea			7450	3424.91	03
	DHN-6			5000	1000	01
Forest Species	--	--	--	--	--	--
<b>Total</b>				-		

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

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers
Bio Fertilizers	Azolla	44.5	895	21
Bio-pesticide	--			
Bio-fungicide	<i>Trichoderma</i>	162	19600	27
Bio Agents	Eathworm	29.7	8550	20
Others	Vermicompost	15173	118649.251	154
	Banana Special	3360.14	579424.22	765
	Vegetable Special	-	-	-
	Milk	7527.25 L	244971.5	25
	<i>Pseudomonas flurescence</i>	42	3900	18
<b>Total</b>				

**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
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others				

1	2	3	4	5
<b>Poultry</b>				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				

Others				
<b>Piggery</b>				
Piglet				
Others				
<b>Fisheries</b>				
Fingerlings				
Ornamental fishes	Guppies, Mollies, Sword tails	1128	1920	11
<b>Total</b>				

**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
<b>Research papers</b>	--	--	--
<b>Technical reports</b>	--	--	--
<b>News letters</b>	-	--	
<b>Popular articles</b>	Handy cycle weeder for small farmers (The Hindu)	Mr.Mallikarjuna B.O.	--
	Enidu Hasiru Kranti in Krishi Munnade magazine	Mr.Raghuraja J Dr. Devaraja T.N .	--
	Vayuguna Badalaavaneya Vipareetagala Naduve (Janathavaani News paper)	Dr. Devaraja T.N .	--
	Apayakari Parthenium Kaleya Samagra Hathoti Kramagalu (Janathavani News Paper,.)	Mr.Mallikarjuna B.O. Dr. Devaraja T.N	--
	New planting method to improve Coconut yield (in agriculturalinformation.com)	Dr. Devaraja T.N.	--
	Paddy cum fish integrated farming (in agriculturalinformation.com,	Dr. Devaraja T.N.	
	Savayava Bhata Krishika - Sri. Anjaneya A.N. in Krishi Munnade monthly magazine of UAS (D)	Mr.Raghuraja J Dr. Devaraja T.N	
	Dadda appanoo Duddappanaagaballa, Krishiyalli ! in Krishi Munnade monthly magazine of UAS (D); Article on Krishi Pandith Award farmer Sri. K.S.Prakash	Mr.Raghuraja J Dr. Devaraja T.N	

1	2	3	4
<b>Extension literature</b>	ICAR-Krishi Vigyan Kendra, Davanagere-Folder	Mr Raghuraja J. Dr. Devaraja T.N.	1000
<b>Radio Talk</b>	Production technology of Arecanut (Live interaction) at AIR, Chitradurga		--
	Contingency crop planning for delayed monsoon (AIR-Chitradurga,	Mr. Mallikarjuna B O	--
	Contingency crop planning for Horticulture crops during drought periods (AIR-Bhadravathi, 6-50 PM,.)	Mr.Basavanagowda M.G	--
	Fodder management for livestock during scarcity period. (AIR-Bhadravathi, 6-50 PM,)	Dr. Jayadevappa G.K.	--
	Improved production technology in Ragi (ML-365). (AIR-Bhadravathi, 6-50 PM)	Mallikarjuna B.O.	--
	Integrated Crop Management in Banana (AIR-Bhadravathi, 6-50 PM,.)	Prasannakumara N	
	Organic fertilizers and chemical production and utilization (AIR-Bhadravathi, 6-50 PM,)	Vijayakumara S.B.	
	Judicious use of chemical fertilizers and soil health management (AIR-Bhadravathi, 6-50 PM)	H.M. Sannagoudra	
	Profitable fish culture in pond (AIR-Bhadravathi, 6-50 PM,)	Dr. Devaraja T.N.	
<b>TV Programmes</b>	Land preparation for moisture conservation in rainfed areas	Mallikarjuna B.O.	--
	Improved production technology (seed treatment and fertilizer management in maize)	Mallikarjuna B O	--
	Green manuring in Arecanut	Basavanagowda M.G.	--
	Soil sampling procedure	H.M. Sannagoudra	--
	Importance of green manuring in paddy (ETv Annadata, 6.30 AM,)	Mallikarjuna B O	--
	Importance of Micro and Macro nutrient spray in Cotton (ETV Annadata, 6-30 AM)	Mallikarjuna B.O.	--
	Management of CBHC in Coconut (ETV Annadata, 6-30 AM)	Basavanagowda M.G.	--
	Mechanization in Arecanut processing (ETV Annadata, 6-30 AM,)	Basavanagowda M.G.	--
	Importance of Bio-fertilizers seedling treatment in Ragi (ETV Annadata, 6-30 AM)	Mallikarjuna B.O.	--
	Setts treatment in Sugarcane (ETV Annadata, 6.30 AM)	Mallikarjuna B.O.	--
	Use of Rubber mats in Scientific Dairy Farming (ETV Annadata, 6.30 AM)	Dr. Jayadevappa G.K.	--
	Management of Sigatoka leaf spot in Banana (E-TV Kannada, Annadata, 6.30 AM, )	Basavanagowda M.G.	--
	Fish varieties for Davanagere inland areas Banana (E-TV Kannada, Annadata, 6.30 AM,)	Dr. Devaraja T.N.	--
	Management of pod borer and agronomic practices to improve Redgram yield after maize harvest (in ETv kannada, Annadata at 6.30 AM)	Mallikarjuna B.O.	--
	Integrated management of BPH in paddy (in E-TV Kannada, Annadata, 6.30 AM)	Prasannakumara N.	--
	Management of CBHC in Coconut (in Krishi Ranga, DD Chandana at 6.00 PM)	Basavanagowda M.G.	--
"Terrace Gardening" in ETv Annadata, 6.30 AM	Basavanagowda M.G.	--	
"Sunscorching management in Arecanut" in ETv Annadata, 6.30 AM.	Basavanagowda M.G.		

**10. B. Details of Electronic Media Produced**

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Transplanting in Ragi	01

**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 Bazaar (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 Abiyana:** 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** : 03 (Siddanuru, Dodderahalli, Kadabagere)
- ii. **No. of farm families selected** : 1033
- iii. **No. of survey/PRA conducted** : Basic information collected through PRA in Siddanuru and from secondary information from Dodderahalli, Kadabagere

**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
<b>Total</b>		<b>15</b>	<b>6,74,694-00</b>

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 Samples	3516	2846	1512	3,17,981/-
Water Samples	2372	1638	1560	1,08,850/-
Plant samples	--	--	--	--
Manure samples	05	03	02	5,00/-
<b>Total</b>	<b>5893</b>	<b>4487</b>	<b>3074 *</b>	<b>4,27,331/-</b>

- 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 2015-16:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1683	295	1308	1,68,300/-
Water Samples	1482	156	112	74,100/-
Plant samples	-			
Manure samples	-			
<b>Total</b>	<b>3165</b>	<b>451</b>	<b>1420 *</b>	<b>2,42,400/-</b>

- 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 2015-16 : Yes**

**Period of observing Technology Week : From 31-01-2016 to 14-02-2016**

**Total number of farmers participated : 760**

**Total number of agencies involved : 05**

**Number of demonstrations visited by the farmers: 08**



**Other Details**

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	--	--	--
Lectures organized	05	760	Terrace gardening and Kitchen garden, Integrated farming system, Rural women health, Integrated crop management
Exhibition	-	-	
Film show	02	292	Integrated Farming System and Terrace gardening
Fair	--	--	---
Farm Visit	03	677	--
Diagnostic Practical	--	--	--
Supply of Literature (No.)	05	760	--
Supply of Seed (q)	01	5 kg	Terrace gardening and Kitchen garden,
Supply of Planting materials (No.)	--	--	--
Bio Product supply (Kg)	01	815 kg	--
Bio Fertilizers (q)	--	--	--
Supply of fingerlings	--	--	--
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week	--	760	Farmers

**10. J. Interventions on drought mitigation (if the KVK included in this special programme) : Not included (However, weekly report on crop and rainfall status of the district including KVK activities to address the drought situation reported from June to Sept. 2015).**

**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)	10	25
Cereals		
Vegetable crops		
Tuber crops		
<b>Total</b>	10	25

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

State	Livestock components	Number of interactions	No. of participants
Karnataka	Dairy	12	240
<b>Total</b>		<b>12</b>	<b>240</b>

**D. Animal health camps organized**

State	Number of camps	No. of animals	No. of farmers
Karnataka	02	381	184
<b>Total</b>	02	381	184

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

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
--	--	--	--	--
<b>Total</b>	--	--	--	--

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

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

**G. Awareness campaign**

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Karnataka	09	278	--	--	09	264	--	--	01	--	03	100
<b>Total</b>	09	278	--	--	09	264	--	--	01	--	03	100

**PART XI. IMPACT****11.A. Impact of KVK activities:**

**Impact of Coconut climbing skill development and plant protection measures trainings (FOCT) conducted by our ICAR-KVK for 140 rural youths. Impact is analyzed before and after training for below parameters/.**

Parameters	Characters/Units	Before Training		After Training		Per cent Increase
		No.	Per cent	No.	Per cent	
Coconut climbing as an occupation by the youth	Main occupation	41	29.28	92	65.71	124.39
	Subsidiary occupation	85	60.72	39	27.85	-117.94
	Not as occupation	14	10.00	09	06.44	-55.55
Means of climbing	Using bare hands	68	48.57	00	00.00	--
	Using rope/cloth	56	39.99	00	00.00	--
	Not climbing at all	16	11.44	00	00.00	--
	Using machine	00	00.00	140	100	--
Average number of trees climbed per day	No. of trees	12	--	35	--	191.66
Average earnings by the youths in a month	Rs. Per Month	2450-00	--	6900-00	--	181.63

Identification of coconut pest and diseases by the rural youth	No. of Youth	17	12.14	78	55.71	358.82
Services rendered by rural youth to the coconut growers	Plant protection measures and crown cleaning	00.00	00.00	70	50.00	--
	Integrated Nutrient Management	00.00	00.00	21	15.00	--

**11.B. Cases of large scale adoption: NIL**

**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**

<b>Name of organization</b>	<b>Nature of linkage</b>
Dhanuka Agritech Ltd, Bengaluru	Conducted training programme on INM in paddy in collaboration with Dhanuka Agritech Ltd., Bengaluru.
CDB, Bengaluru and NRLM and Zilla Panchayath, Davanagere	Conducted 6 days FOCT training programme for rural youth in collaboration with CDB, Bengaluru and NRLM, Zilla Panchayath, Davanagere
Department of Horticulture, Davanagere	Conducted 4 training programmes on Terrace gardening in collaboration with Department of Horticulture, Davanagere.
ASSIRD, Mysore and Zilla Panchayath, Davanagere	Conducted 2 training programmes on Social auditing of NREGA for village resource persons in collaboration with ASSIRD, Mysore and Zilla Panchayath, Davanagere.
Department of Horticulture, Davanagere	Conducted training programme on Dryland Horticulture in collaboration with Department of Horticulture, Davanagere.
AIR, Chitradurga and Department of Agriculture, Davanagere	Conducted Radio Kissan Day in collaboration with AIR, Chitradurga and Department of Agriculture, Davanagere.

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

<b>Name of the scheme</b>	<b>Role of KVK</b>	<b>Date/ Month of initiation</b>	<b>Funding agency</b>	<b>Amount (Rs.)</b>
NICRA	Demonstrations, Training, NRM works, Exposure visits and Climate Resilient Technologies	17-01-2011	ICAR	7,90,000-00
Biofuel Information and Demonstration Centre	Training, Awareness campaign Demonstration, Exhibitions and Research	22-3-2011	Karnataka State Biofuel Development Board, GoK	11,00,000-00

**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 2015-16**

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	Extension Programmes	-			
06	Publications	-			
07	Other Activities (Pl. specify)				

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

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

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

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

**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 covered	Crop	Livestock	Weather	Marketing	Awareness	Other Enterprise	Total
April	Text Message	3008	1	0	0	0	0	0	1
May	Text Message	3008	1	1	0	0	0	0	2
June	Text Message	3013	14	2	0	0	1	0	17
July	Text Message	6993	9	1	0	0	0	0	10
October	Text Message	75	0	1	0	0	0	0	1
August	Text Message	6993	1	0	0	0	0	0	1
September	Text Message	79	0	1	0	0	0	0	1
November	Text Message	80	0	0	0	0	0	1	1
December	Text Message	80	0	0	0	0	0	1	1
January	Text Message	100	0	0	0	0	0	2	2
February	Text Message	7052	0	0	0	0	2	0	2
	<b>Total</b>	<b>7052 *</b>	<b>26</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>39</b>

❖ A total of 7052 farmers registered for KMAS. Depending on the message category, farmers are receiving the messages.



**PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK****13.A. Performance of demonstration units (other than instructional farm)**

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty. (kg)	Cost of inputs	Gross income	
1.	Banana Special	2011-12	--		Banana Special	3360.14	185326/-	5,79,424.22/-	
2.	Horticulture Nursery	2009-10	0.1		Areca nut	05 No.	21138/-	37,096/-	
					Drumstick	9872 No.			
					Mango	1695 No.			
					Sapota	02 No.			
					Lemon	1244 No.			
					Others	4 No.			

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
<b>Cereals</b>									
Ragi (Finger millet)	26-10-2015	5-12-2015	1.25	GPU-28	Seeds and straw	27	58,004/-	93,000/-	Due to heavy rain during September yield was affected
<b>Pulses</b>									
<b>Oilseeds</b>									
<b>Fibers</b>									
<b>Spices &amp; Plantation crops</b>									
<b>Green manure crops</b>									

Sunhemp	10-11-2015	10-01-2016	0.5	Local	Seed		5895/-		Incorporated to soil to improve soil fertility.
Dhiancha	29-08-2015	01-12-2015	0.25	Local	Seed	125	6250/-	7070/-	
Velvet beans	10-9-2015	01-01-2016	0.5	Local	Seed	76	5540/-	9120/-	
<b>Fruits</b>									
Mango									
Sapota									
<b>Vegetables</b>									
Brinjal									
Bhendi									
Tomato									
Bottlegaurd									
Cucumber									
<b>Plantation crops</b>									
Arecanut									
Tamarind									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	<i>Trichoderma</i>	162 kg	21138/-	19600/-	--

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Crossbred Cow Dairy	HF X	Milk	7522.5 litres	2,65,000/-	2,44,801/-	
2	Varietal Fodder plots demo unit	DHN-6, Guinea Grass (BG-9) Co-3 Napier	Root slips	16450 No.	-	82,250/-	
3	Azolla Demo Unit	<i>Azolla pinnata</i>	Azolla plant	39.5 kg	-	790/-	
4	Vermiculture and vermicompost demo unit		Compost	69070 kg	48600/-	69,728/-	
		<i>Eudrilus Sp.</i>	Earthworms	27.0 kg	-	8,100/-	
5	Ornamental Fish Production Unit	Guppies, Mollies, Sword tails, Platy, Gambusia, Sucker cat fish	Ornamental fishes	1128 No.	1500/-	1920/-	

**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	170	12	--
May-2015	200	02	--
June-2015			--
July-2015	92	06	--
August-2015	09	01	--
September-2015			--
October-2015	59	03	--
November-2015			--
December-2015	31	02	--
January-2016	49	03	--
February-2016			--
March-2016			--
<b>Total</b>	<b>610</b>	<b>29</b>	--

**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 sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
--	--	--	--	--	--	--	--	--	--

**13.H. Farmers Field School : Not sanctioned in 2015-16**

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

Name of the farmer, Land holding and Annual Income (Rs) 2011-12	Existing crop / enterprises	KVK intervention 2015-16	
		Crops/ Enterprises	Gross Income (Rs.)
1	2	3	4
Ramanjuneya Salakatte, Harihara 5 ha	Existing crop / enterprises: Areca nut, coconut, cocoa, paddy, Dairy,	Paddy Areca nut Coconut + Cocoa	2,38,400 8,96,000 7,25,000
		<b>Total</b>	<b>20,54,400</b>
Sri Dyamappa H.D. Haluvathy , Davanagere tq. 6 ha.	Maize, Cotton, Cucumber, Pumpkin, Chilli, Cowpea, Rose, Papaya, Areca nut, Dairy, Poultry and Poultry feed maker	Maize Areca nut Banana Poultry Dairy	4,30,000 3,60,000 1,50,000 20,30,000 20,000
		<b>Total</b>	<b>29,90,000</b>
Sri Onkarappa G., S. Mallapura, Honnali tq. 3.6 ha.	Maize, Ragi, Cotton, Groundnut, Mango, Sapota, Coconut, Oil palm, Drumstick, Papaya, Jamoon, Tamarind, Cluster bean, Brinjal, Chilli, Betelvine, Cucumber, Beans, Cabbage, Onion, Silver oak, Bio- Digester, Vermicompost unit and Dairy	Mango Sapota Oil palm Coconut Drumstick Tamarind Papaya Amla Onion Brinjal Chilli Cluster bean Tomato Cabbage Ridguard Leaf vegetables Banana Redgram Dolichus bean	60,000 8,000 30,000 1,00,000 6,000 5,000 15,000 3,000 1,500 18,000 22,000 26,000 15,000 4,000 8,500 35,000 18,000 14,000 1,300

		Buffallo	25,000
		<b>Total</b>	<b>4,27,000</b>
Sri Arunkumar G.C. Bilchod, Jagaluru tq. 9.2 ha.	Maize, Ragi, Redgram, Sorghum, Field bean, Cotton, Tamarind , Banana, Guava, Marigold, Tomato, Chilli, Drumstick, Apiculture, Cowpea, Mango, Sapota, Coconut, Arecanut, Dairy and Vermicompost	Dairy Coconut + Fodder Arecanut + Pepper Tamarind Maize Cotton Finger millet	675,000 192,000 350,000 40,000 1,62,500 70,000 75,000
		<b>Total</b>	<b>15,64,500</b>
Renukarya M K U. Kallahalli, Harpanahalli Area : 6 ha	<u>Coconut (paired and pentagonal planting),</u> Arecanut, Banana, Sapota, Mango, Fodder, Dairy, Vermicompost unit, Farm ponds	Coconut Arecanut Banana Sapota Mango Dairy Sheep unit Poultry Fishery Agro forestry	2,40,000 2,80,000 2,64,000 80,000 80,000 1,44,000 22,550 12,250 6,000 40,000
		<b>Total</b>	<b>11,68,750</b>

**13. I. b) Innovative Programme:**

**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.
- Outcome from last year's work:
  - Number of animals inseminated with superior germplasm – 1760
  - Number of animals conceived – 642
  - Number of monthly technical meetings – 10
  - Advisory services provided – 102
  - Supply of good quality fodder seeds/slips (Lucerne, Nutrifeed, DHN-6, Napier X, Sugargraze, Sesbenia) – 56 farmers
  - Supply of mineral mixture – 54farmers
  - 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**

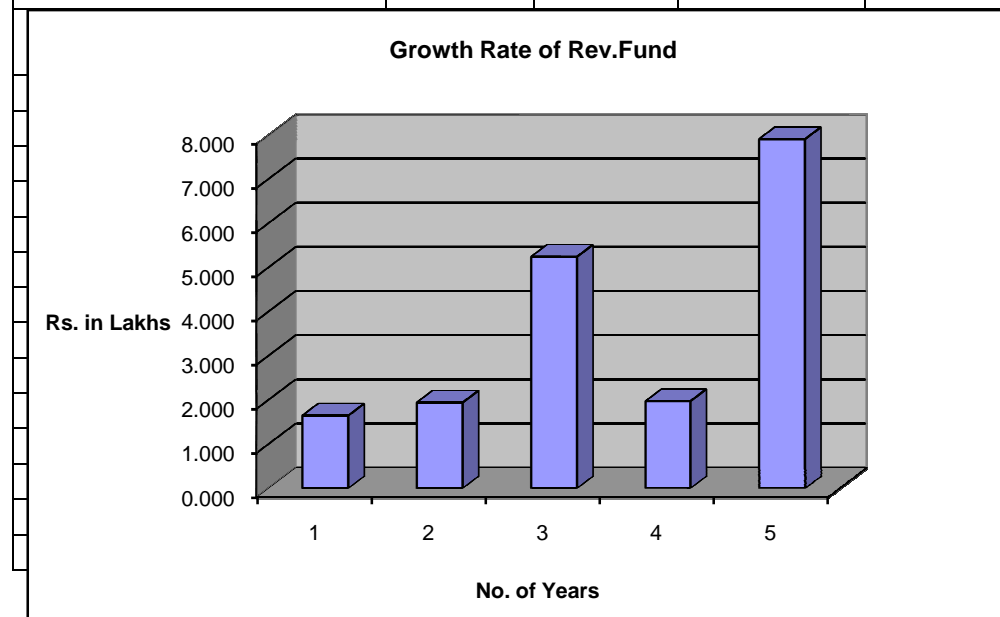
<b>Bank account</b>	<b>Name of the bank</b>	<b>Location</b>	<b>Branch code</b>	<b>Account Name</b>	<b>Account Number</b>	<b>MICR Number</b>	<b>IFSC Number</b>
With KVK	State Bank of India	PJ Extension DAVANAGERE 577 002	5624	Taralabalu Krishi Vigyan Kendra <b>(Main Grant Account)</b>	30166599498	577002002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



<b>14. B. Utilization of KVK Funds During the Year 2015-16 (Rs. In Lakhs)</b>				
<b>Sl. No.</b>	<b>Particulars</b>	<b>Sanctioned</b>	<b>Released</b>	<b>Expenditure</b>
1	2	3	4	5
<b>A.</b>	<b>RECURRING ITEMS :</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>
1	Pay & Allowance	104.500	105.096	104.051
2	Travelling Allowance	0.800	0.800	0.789
3	Other Contingencies :	6.940	7.090	6.909
a)	Office Stationery, Telephone, etc.	1.200	1.200	1.196
b)	POL & Repairs	2.500	2.500	2.494
c)	Stipend / Meals for Trainees	0.110	0.110	0.107
d)	Demon. & Teaching Materials	0.220	0.220	0.220
e)	FLD On Cereals & Hort.Crops	1.640	1.640	1.641
f)	NFSM-Cluster Frontline Demon.s	0.600	0.750	0.594
g)	On Farm Testing	0.230	0.230	0.222
h)	Extension Activities	0.410	0.410	0.405
i)	Maintenance of Library	0.030	0.030	0.030
	<b>Total - 'A'</b>	<b>112.240</b>	<b>112.986</b>	<b>111.749</b>
<b>B.</b>	<b>NON RECURRING ITEMS :</b>			
1	Works			
2	Equipments & Furniture			
4	Vehicles			
3	Establishment of Library			
	<b>Total - 'B'</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>C.</b>	<b>REVOLVING FUND</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>Total ( A + B + C)</b>	<b>112.240</b>	<b>112.986</b>	<b>111.749</b>

## 14.C. Status of revolving fund (Rs. in lakh) for the three years

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	Income	Expenditure	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



**15. Details of HRD activities attended by KVK staff during 2015-16**

Staff Name	Designation	Discipline	Training Title	Institute Address	Start Date	End Date	Amount (Rs)	Remarks
1	2	3	4	5	6	7	8	9
Mr. Mallikarjuna B.O.	Subject Matter Specialist	Agronomy	Enabling process for livelihood enhancement in rainfed agriculture	CRIDA, Hyderabad	24-6-2015	07-07-2016	50-00	
					<b>Total</b>		<b>50-00</b>	

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

- Organized one day training on 'INM and soil fertility in Paddy' for field workers of Dhanuka Agri-tech Pvt. Ltd.
- Organized 2 orientation programme for agriculture entrance test for 2<sup>nd</sup> PUC students for preparation to UAS entrance test (198 students participated).
- Conducted 1 Ex-trainees sammelan for FOCT trainees.
- Organized training on 'Terrace and Kitchen gardening' in collaboration with department of Horticulture, Daanagere ( 6 progammes, 620 urban women participants)
- Organized 2 training (6 days each) for 60 rural unemployed youth an 'Coconut climbing skill development and plant protection measures' sponsored by CDB, Benglauru and Zilla Panchayath, Davangerer.
- Organized training on 'Technology transfer mechanism in Animal Science discipline'' for extension personnel from department of Ahs VS, Davangere (33 participants).
- Organized Bi-monthly workshop in KVK for extension personnel from department of personnel (100 participants).
- Celebrated 'World Food Day' on 16-10-2015 in collaboration with SKDRDP, Davanagere (61 participants).
- Celebrated 'National Fish Farmers Day' on 10-7-2015 in collaboration with department of Fisheries, Davanagere (349 participants) at Devarahalli village.
- Celebrated 'Women in Agriculture Day' in collaboration with department of agriculture, Davanagere at DATC, Kadajji (19 participants).
- Celebrated 'World Soil Day' on 05-12-2015 in collaboration with district administration and MCF, Ltd (151 participants).
- Organized 2 (3 days) training programme on 'Social auditing of 'MNREGA' for village resource persons (92 participants) in collaboration with ASSIRD, Mysore.
- Celebrated 'International Farmers Day' at Siddanuru (NICRA village) on 23-12-2015 in collaboration with development departments (60 participants)
- Celebrated 'National Science Day' on 29-2-2016 in collaboration with DRM, Science college, Davangere (138 participants)
- Celebrated 'World Environmental Day' in collaboration with Higher Primary School, Kadlebalu (162 participants)
- Organized one day workshop on 'Improved production technology in banana and arecanut' on 21-12-2015 in collaboration with RCF Ltd and department of Horticulture, Davanagere (64 participants).
- Organized 3 day training on 'Dry land Horticulture' (49 participants) sponsored by Sujala-III, Department of Horticulture, Davanagere.
- Organized 'Krishi Mela' at Sirigere, Chitradurga district from 20-09-2015 to 24-9-2015.

- Participated in 'Krishi Mela' organized by UAHS, Shimogga from 3-10-2015 to 6-10-2015 at Nazeernagara, Harapanahalli (tq) in collaboration with district administration.
- Celebrated 'ICAR- Foundation Day' on 3-8-2015 at Siddanur (NICRA village) (24 participants).
- Celebrated 'Parthenium Awareness Week' on 3rd week of August 2015 at Siddanuru.
- Organized 9 Davanagere Dairy Farmers Association (DDFA) meeting.
- Our FLD and IFS farmers got following award:
  - Sri K.S. Prakash, Kuremaganahalli village-Jagjivan Ram Abhinav Kisan Puraskar Award, by ICAR-New Delhi.
  - Sri A.N. Anjaneya, Kumbalur village-Innovative Rice Farmer Award by ICAR- Directorate of Rice Research Institute, Hyderabad.
  - Sri Venkata Ramanjuneya, Satyanarayanpura Camp, Best Horticulture Farmer Award by UAHS, Shivamogga.
  - Sri Muzamil Bhasha, Devarahatti village, Best Fishery Farmer Award by UAHS, Shimogga.
- Participated in 'International Seminar on bio-fuel and World Bio Fuel Day' on 12-8-2015 organized by UAS, Dharwad.
- Participated in one day workshops on Role of KVKs on FPOs 'on 30-10-2015 organized by KVK, Gadag and 2-3-2015 Bengaluru (Price Commission respectively).
- Participated in 'Seminar-Cum Exhibition on PPV and FRA on 26-12-2015 at BR Hills organized by UAS, Bengaluru.
- Participated in 2 day 'Symposium of KVKs' on 21-22 January 2016, organized by UAS, Dharwad and presented 5 research papers.
- Participated in Annual Technical Meet organized by departments of Agricultural Extension, Agronomy and Entomology, UAHS, Shivamoga.
- Started DAESI Diploma course for 40 input dealers of Harihar taluk in collaboration with SAMETI South, MANAGE, Hyderabad and Department of Agriculture, Davanagere.
- Prepared special reports on 'Awareness of farmer on Neem Coated Urea', Drought report (weekly basis in Kharif), 'Report on 100 progressive farmers in Davanagere district.
- Organized one day workshop on 'Production Technology of Arecanut and Banana' at Sirigere in collaboration with (Riyozen Pvt. Ltd, Bengaluru (150 participants.)

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

- Conducted 11 training programme to 659 participants on Bio Fuel farmers, farm women and Rural youths.
- Conducted 12 'Awareness Programme' to 782 School and college students, Rural folk and urban people through demonstrations, discussion and Jathas.
- Conducted 6 'Bio-energy exhibition' and more than 30,000 school and college students, farmers, rural youths at Morarji Desai Residential High School, MaMarir Nagar, village, Harapanahalli tq and Government High School, Hosa Kadlebalu village, Davanagere tq. During Krishi Mela at UAHS, Shivamogga and during Krishi Mela at Sirigere Brihanmutt, Chitradurga tq.
- Celebrated 'World Bio fuel Day' on 20<sup>th</sup> August 2015 in collaboration with Zilla panchayath, Social forestry Department, Education department and Green Gold NGO at Morarji Desai Residential High School, Mazir Nagar, village, Harapanahalli tq.
- Celebrated 'World Environmental Day' on 10<sup>th</sup> June, 2015 in collaboration with Government High School, Hosa Kadlebalu village, Davanagere tq.
- More than 1000 biofuel samplings like Honge, Simaruba, Neem and Hippo were planted during the period.
- Produced 503 liters of bio-diesel from Honge seed. Utilized for office diesel vehicles and sold outside on demand. 2522 kgs of Honge cake produced was sold.

**NICRA Project:**

- Renovation and deepening of deferent pond-30 farmers are benefited (2242 cum capacity).
- Desiltingof village tank (15 farmers are benefited).
- 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-403 livestock is vaccinated – 129 farmers are benefited.
- **Four Animal Helath check up done and treated 51 animals.**
- Perinneal Fodder and silage production taken up with 20 farmers.
- Conducted 14 different extension activation benefiting 520 farmers.
- Organized exposure visit to KVK Hirehalli, KVK Doddaballapura, Sadananda Farm , KAPL (B) etc. for VCRM membes.
- Custerm hiring centre activities benefited 150 farmers and generated Rs. 9090 income.

## SUMMARY FOR 2015-16

## I. TECHNOLOGY ASSESSMENT

## Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Rice	Assesment of various method of urea application in paddy with an emphasis on nitrogen use efficiency	3
Varietal Evaluation	Foxtail Millet	Assesment of foxtail millet varieties for higher yield under rainfed	2
	Dolichos bean	Varietal assessment in dolichos bean for higher yield	4
Integrated Pest Management	Banana	Assessment of different molecules for Banana skipper management	3
Integrated Crop Management	Banana	Modified high density planting for improved productivity in banana (2014-15)	3
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)			
<b>Total</b>			<b>14</b>

**Summary of technologies assessed under livestock**

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Cattle	Effect of feeding urea treated paddy straw along with grain mixture for better performance in dairy animals	5
	Cattle	Alleviation of eversion of reproductive organs in dairy animals through balanced nutrition (2014-15)	20
Production and Management			
Others (Pl. specify)			
<b>Total</b>			<b>25</b>

**Summary of technologies assessed under various enterprises**

<b>Thematic areas</b>	<b>Enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>

**Summary of technologies assessed under home science**

<b>Thematic areas</b>	<b>Enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>

**II. TECHNOLOGY REFINEMENT****Summary of technologies refined under various crops**

<b>Thematic areas</b>	<b>Crop</b>	<b>Name of the technology refined</b>	<b>No. of trials</b>
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)			
<b>Total</b>			

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

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



**Summary of technologies refined under various enterprises**

<b>Thematic areas</b>	<b>Enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>

**Summary of technologies refined under home science**

<b>Thematic areas</b>	<b>Enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>

## III. FRONTLINE DEMONSTRATION

## Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<b>Cereals</b>																		
Rice	ICM	Mechanization in Paddy		15	06	57.98	54.20	6.82	Seed rate /ha: 20-25 kg	62 kg	45250	101325	56075	2.24	50300	94850	44550	1.89
									Plant Height (cm): 73.2	71.2								
									Transplanting: 4 no/ha(8 hour)	15 no/ha 16 hour								
Rice	ICM	Integrated crop management in paddy		15	06	62.60	54.10	15.17	Plant Height (cm): 92.4	88.7	46750	106420	59670	2.28	49500	91966	42466	1.86
									Incident of blast (%): 5.5	14.5								
									Incident of stem borer (%): 4.75	17.5								

Maize + Redgram	ICM	Redgram as Intercrop in Cereals - BRG-2		10	04	64.29	54.0	18.90	Plant height of Maize (cm):177.33 No. of row/cob (no): 14.24 Plant height of Redgram (cm):180.8	171.4 14.18 -	42500	88728.5	46228.5	2.08	40010	74575.2	34656.2	1.86
Sorghum	ICM	ICM in Sorghum (SPV-2217)		10	04	12.80	8.78	45.33	Plant height of (cm):180.68	165.05	18010	29348	11338	1.63	13560	20194	6634	1.49
<b>Millets</b>																		
Fingermillet ML-365	ICM	Integrated Crop Management in HYV of Fingermillet (ML-365)		20	08	25.13	20.6	22.22	Plant height of (cm):113.5 No. of tillers/plant: 5.6 No. of figners/head: 8.7	97.6 4.1 5.1	23300	62773.5	39473.5	2.69	22900	51256.1	28356.1	2.24
Fingermillet GPU-28	ICM	Integrated Crop Management in Fingermillet (GPU-28)		10	04	18.6	15.29	21.57	Fodder yield (q/ha): 33.39 Plant height of (cm):83.38 No. of figners/head: 5.1	26.28 76.37 4.0	21234	42780	21546	2.01	18950	26008.3	7058.3	1.37
Foxtail millet HMT-100-1	ICM	ICM in foxtail millet in late Kharif- HMT-100-1		10	04	12.07	8.92	35.43	Plant height of (cm):103.7 Panicle length (cm):18.39	76.6 11.36	14627	27772.5	13145.5	1.90	14642	20520.6	5878.6	1.40
<b>Oilseeds</b>																		

Pulses																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Chickpea	ICM	Integrated crop management in Bengalgram (NFSM)		25	10	6.90	4.98	38.55	Plant height of (cm):44.8 No. of branches: 6.5 No. of pods/ plant: 47.21 Incident of wilt (%): 5.25 Incident of pod borer(%): 4.75	39.84 4.78 38.74 14.97 16.38	11200	33120	21920	2.94	9635	23904	14269	2.46
Vegetables																		
Dolichos bean	Intersapce utilization in Arecanut	Dolichos Bean (Arka Amogh) as Intercrop in young Arecanut gardens		05	01	10.03	7.62	44.88	Germintion (%): 92.4 Plant height (cm): 63.0	90.4 58.8	71033	165600	94567	2.34	61208.6	114300	53091.4	1.86
Chilli	ICM	Integrated Crop Management in Chilli		05	02	Demonstration ongoing												
Tomato 2014-15	IDM	Demonstration of ripple disease resistant hybrid		15	06	61.62	52.03	18.43	No. fruits/ plant: 165 Days to 1 <sup>st</sup> flowering: 45 Plant height (cm): 95 Percent of fruit racking (%):4.8 Bacterial yield(%): 4.9	115 52 78 14.75 16.36	45915.4	154062	108146	3.38	52596.3	130070	77473.6	2.48
Flowers																		
Ornamental																		
Fruit																		
Banana	IDM	Integrated management of sigatoka leaf spot in Banana		05	02	Demonstration is going on												

Commercial																				
Sugarcane	ICM	Sustainable Sugarcane Initiative with CO-86032		04	1.6	Not implemented														
Fibre crops like cotton																				
Cotton	ICM	Integrated Crop Management in Cotton		20	08	17.93	16.67	7.55	Square (%) 12.3 Leaf reddening (%) 17.8 Sucking pests (no.) 22.0	7.7	25600	66365	40765	2.59	26300	61705	35405	2.34		
Medicinal and aromatic																				
Fodder																				
Fodder	Animal nutrition	Establishment of fodder cafeteria		05	01	37.2	50.5	--	-	-	15000	30480	15480	2.03	15000	25250	10250	1.68		
Plantation																				
Arecanut		Integrated Crop Management in Arecanut		05	01	Demonstration is going on														
Coconut		Drumstick (KDM-1) as inter crop in Coconut gardens		10	04	Demonstration is going on														
Fibre																				

## Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
<b>Dairy</b>																		
	Dairy Management	Integrated management of dairy animals for better performance (Feeding total mixed ration)		01	05	9.104 Milk l/day	7.7 Milk l/day	15.30	Milk quality (CLR):1.027	1.024	151.5	227.5	76.08	1.50	135	192.5	57.5	1.42
<b>Poultry</b>																		
<b>Rabbitry</b>																		
<b>Pigerry</b>																		
<b>Sheep and goat</b>	Animal nutrition	Balanced feeding and total deworming in small ruminants for better body weight gain		10	05	44.3 Sheep Body weight in kg/60 days	21.9 Sheep Body weight in kg/60 days	50.6	Animals attaining tuberty (maturity) :94 % of the animals shown maturity during the period	Only 40% of the animals shown maturity	4561 Per sheep	9509.5 Per sheep	4909 Per sheep	2.08	3000 Per sheep	5475 Per sheep	2475 Per sheep	1.82
<b>Duckery</b>																		
		<b>Total</b>																

**Fisheries**

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
<b>Total</b>																		

**Other enterprises**

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Oyster mushroom																		
Button mushroom																		
Vermicompost																		
Sericulture																		
Apiculture																		
Others																		
<b>Total</b>																		

**Women empowerment**

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
<b>Women</b>						
Pregnant women						
Adolescent Girl						
Other women						
<b>Children</b>						
Neonats						

Infants						
Children						

### Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)					
						Demonstration	Check											

### Other enterprises

### Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonstration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
1	2	3	4	5	6	7	8	9	10	11
<b>Cereals</b>										
Bajra										
Maize	Private	10	04	64.29	54	18.9	42500	88728.5	46228.5	2.08
Rice										
Sorghum										
Wheat										
Others										
<b>Total</b>										
<b>Oilseeds</b>										
Castor										



Mustard												
Safflower												
Sesame												
Sunflower												
Groundnut												
Soybean												
<b>Total</b>												
<b>Pulses</b>												
Greengram												
Blackgram												
Bengalgram												
Redgram												
<b>Total</b>												
<b>Vegetable crops</b>												
Bottle gourd												
Capsicum												
Others												
<b>Total</b>												
Cucumber												
Tomato	Arka Rakshak	15	06	61.62	52.03	18.40	45915.4	154062	108146	3.38		
Chilli	Shivam	05	02	Demonstration is going on								
Okra												
Onion												
Potato												
Field bean												
Others												
<b>Total</b>												

<b>Commercial crops</b>										
Sugarcane										
Coconut										
Cotton	Bt Ankur 3034	20	08	17.93	16.67	7.55	25600	66365	40765	2.59
<b>Total</b>										
<b>Fodder crops</b>										
Maize (Fodder)										
Sorghum (Fodder)										
Others										
<b>Total</b>										

## IV Trainings

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

Area of training	No. of Courses	No. of Participants									
		General			SC/ST			Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	
<b>Crop Production</b>											
Weed Management											
Resource Conservation Technologies											
Cropping Systems											
Crop Diversification											
Integrated Farming											
Micro Irrigation/Irrigation											
Seed production											
Nursery management											
Integrated Crop Management											

Soil and Water Conservation										
Integrated Nutrient Management	1	2	17	19	0	8	8	2	25	27
Production of organic inputs										
<b>Others</b>										
d) Seed treatment	1	15	0	15	0	0	0	15	0	15
e) Bio fuel production and use of bioproducts										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others a)Kitchen garden and terrace gardening	2	13	197	212	0	1	1	13	200	213
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	6	0	6	1	0	1	7	0	7
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others										
<b>c) Ornamental Plants</b>										

Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others a)										
<b>d) Plantation crops</b>										
Production and Management technology	1	6	0	6	0	0	0	6	0	6
Processing and value addition										
Others 1. Dryland horticulture	1	41	0	41	8	0	8	47	0	47
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Others										
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management	1	6	0	6	3	0	3	9	0	9
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										
<b>Livestock Production and Management</b>										
Dairy Management	1	12	0	12	0	2	2	12	2	14
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
<b>Others:</b> a) Preparation of vermicompost										
<b>Home Science/Women empowerment</b>										
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										
<b>Agril. Engineering</b>										
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										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>Plant Protection</b>										
Integrated Pest Management										
Integrated Disease Management	1	9	0	9	1	0	1	10	0	10
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
<b>Others a) Apiculture</b>										
<b>Fisheries</b>										
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 -1. Recent technologies in aquaculture										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
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 –Bio-gas production	1	9	2	1	0	0	0	9	2	11
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										

Others (PUC students orientation)	2	62	15	19	2	1	3	64	136	200
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems	1	17	3	20	1	0	1	18	3	21
Others (Pl. specify)										
<b>TOTAL</b>	<b>14</b>	<b>198</b>	<b>356</b>	<b>554</b>	<b>16</b>	<b>22</b>	<b>38</b>	<b>214</b>	<b>378</b>	<b>592</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
<b>Crop Production</b>										
Weed Management	3	42	0	42	3	0	3	42	3	45
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation	1	17	0	17	2	0	2	19	0	19
Seed production										
Nursery management										
Integrated Crop Management	4	51	1	52	13	0	13	64	1	65
Soil and Water Conservation										
Integrated Nutrient Management	1	6	0	6	3	0	3	9	0	9
Production of organic inputs										
Others a) seed treatment	1	16	0	16	0	0	0	16	0	16
f) Mechanized transplanting in paddy	1	11	0	11	0	0	0	11	0	11
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	3	37	0	37	11	0	11	48	0	48



Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation Other (Kitchen and Terrace garden)	7	74	331	405	52	36	88	126	367	493
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	2	0	2	7	0	7	9	0	9
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
<b>Others : a) Integrated nutrient management in banana</b>										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others										
<b>d) Plantation crops</b>										
Production and Management technology	1	11	0	11	3	0	3	14	0	14
Processing and value addition										
<b>Others</b>										
c) Intercropping in coconut and arecanut	1	16	0	16	0	0	16	0	16	
d) Green manuring										

<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										

1	2	3	4	5	6	7	8	9	10	11
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
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										
<b>Livestock Production and Management</b>										
Dairy Management										
Poultry Management										

Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	25	0	25	1	0	1	26	0	26
Animal Disease Management										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Feed and Fodder technology										
Production of quality animal products										
Others										
<b>Home Science/Women empowerment</b>										
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										
<b>Agril. Engineering</b>										
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										
<b>Plant Protection</b>										
Integrated Pest Management	6	81	0	81	16	0	16	97	0	97
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others										
<b>Fisheries</b>										
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										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										

Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
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	<b>1</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>19</b>	<b>0</b>	<b>19</b>
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>33</b>	<b>393</b>	<b>332</b>	<b>725</b>	<b>126</b>	<b>36</b>	<b>162</b>	<b>519</b>	<b>368</b>	<b>887</b>

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

Area of training	No. of Courses	No. of Participants									
		General			SC/ST			Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming	1	14	0	17	7	0	7	21	0	21	
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											

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										
<b>Others.</b>										
IV. Preparation for UAS and UAHS practical exams										
V. Ex- trainees sammelan for FOCT trainees										
VI. Soil and water conservation										
<b>TOTAL</b>	1	14	0	17	7	0	7	21	0	21

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										



Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
<b>TOTAL</b>										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	60	0	60	0	0	0	60	0	60
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										
<b>Any other</b>										
a) Safe use of pesticide										
b) Technology transfer mechanism in Animal science										
c) Biofuel training to gram panchayath officials and elected members										

d) ICM in plantation crop										
e) Inland aquaculture										
<b>Total</b>	1	60	0	60	0	0	0	60	0	60

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
<b>Any other a) Integrated farming system</b>										
<b>Total</b>										

## Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	
<b>1</b>	<b>Crop production and management</b>											
1.a.	Increasing production and productivity of crops											
1.b.	Commercial production of vegetables											
<b>2</b>	<b>Production and value addition</b>											
2.a.	Dryland horticulture											
2.b.	Ornamental plants											
2.c.	Spices crops											
<b>3.</b>	<b>Soil health and fertility management</b>											
<b>4</b>	<b>Production of Inputs at site</b>											
<b>5</b>	<b>Methods of protective cultivation</b>											
<b>6</b>	<b>Others :</b>											
	a) Apiculture											
	b)Management of horticulture crops in delayed monsoon											
<b>7</b>	<b>Post harvest technology and value addition</b>											
7.a.	Processing and value addition											
7.b.	Others											
<b>8</b>	<b>Farm machinery</b>											
8.a.	Farm machinery, tools and implements											
8.b.	Others											
<b>9.</b>	<b>Livestock and fisheries</b>											
<b>10</b>	<b>Livestock production and management</b>											
10.a.	Animal Nutrition Management											
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
<b>11.</b>	<b>Home Science</b>										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics	2	40	12	52	28	12	40	68	24	92
12.b.	Others : 1.Group formation										
	2. Protection of Plant Varieties and Farmers Right Act										
	<b>Total</b>	2	40	12	52	28	12	40	68	24	92

#### Details of sponsoring agencies involved

5. Dhanuka Agritech Ltd., Bengaluru
6. CDB, Bengaluru and NRLM and Zilla Panchayath, Davanagere.
7. Department of Horticulture, Davanagere.
8. ASSIRD, Mysore and Zilla Panchayath, Davanagere

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	
<b>1</b>	<b>Crop production and management</b>											
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											
<b>2</b>	<b>Post harvest technology and value addition</b>											
2.a.	Value addition											
2.b.	Others											
<b>3.</b>	<b>Livestock and fisheries</b>											
3.a.	Dairy farming											
3.b.	Composite fish culture											
3.c.	Sheep and goat rearing											
3.d.	Piggery											
3.e.	Poultry farming											
3.f.	Others											
<b>4.</b>	<b>Income generation activities</b>											
4.a.	Vermi-composting											
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.											
4.c.	Repair and maintenance of farm machinery and implements											
4.d.	Rural Crafts											
4.e.	Seed production											
4.f.	Sericulture											
4.g.	Mushroom cultivation											
4.h.	Nursery, grafting etc.											

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training	2	50	0	50	9	1	10	59	1	60
4.k.	<b>Others:</b> Coconut climbing and plant protection										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others										
	<b>Grand Total</b>	<b>2</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>59</b>	<b>1</b>	<b>60</b>

**V. 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	09	235	29
Animal health campaign	02	155 animals treated	
Kisan Mela	02	--	
Exhibition	01	--	--
Film Show	03	39	61
Method Demonstrations	20	354	50
Farmers Seminar	08	1230	53
Farm Science Club (DDFA)	09	278	14
Group meetings	01	08	01
Lectures delivered as resource persons	117	11870	1053
Newspaper coverage	59	--	--
Radio talks	09	--	--
TV talks	18	--	--
Popular articles	08	--	--
Scientific visit to farmers field	223	1488	243
Advisory over phone	685	685	--
Farmers visit to KVK	1525	1525	--
Diagnostic visits	55	431	136
Exposure visits	01	02	06
Ex-trainees Sammelan	01	27	--
Soil test campaigns	02	80	06
Meeting/workshops with extension officials	09	--	337
Celebration of Days	09	876	79



**VI. PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS****Production of seeds by the KVKs**

<b>Crop category</b>	<b>Name of the crop</b>	<b>Variety</b>	<b>Hybrid</b>	<b>Quantity of seed (qtl)</b>	<b>Value (Rs)</b>	<b>Number of farmers</b>
Cereals (crop wise)	-					
Oilseeds	-					
Pulses						
Commercial crops	Coconut	Arasikere tall	-	1000 No.s	20,000/-	01
Vegetables	Drumstick	KDM-1	-	0.68	1,77,539.99	147
Flower crops						
Spices						
Fodder crop seeds	Sesbania			0.0425	1275/-	06
	Subabul			0.50	100/-	01
Fiber crops						
Forest Species						
Green manure	Sunhemp	Local	-	3.63	18150/-	10
	Velvet beans	Mucuna Spp	-	1.5	17099.99	35
	Diancha	-	-	0.75	3950/-	03
Others						
<b>Total</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	Tamarind	Local	--	4	140	02
Vegetable seedlings	Drumstick	PKM-1	--	9872	110395	63
Fruits	Mango	Alphonso	--	1695	84309.75	28
	Sapota	Cricket ball	--	02	6.0	01
	Lemon Grass	Local	--	08	80	02
	Lime	Local	--	1244	36559.31	28
	Jack	Local		1	100	01
Ornamental plants						
Medicinal and Aromatic	Aloevera	Local	--			
Plantation	Arecanut	Thirthahalli Local	--	05	100	01
Spices	Curry leaf	Local	--	21	514.98	05
	Black pepper	Paniyur-1	-	02	36	01
Tuber	--	--	--			

1	2	3	4	5	6	7
Fodder slip	Napier and Lucerne	-	--	7400	3100	02
Fodder cuttings	Guinea			7450	3424.91	03
	DHN-6			5000	1000	01
Forest Species	--	--	--	--	--	--
<b>Total</b>				-		

**Production of Bio-Products**

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers
Bio Fertilizers	Azolla	44.5	895	21
Bio-pesticide	--			
Bio-fungicide	<i>Trichoderma</i>	162	19600	27
Bio Agents	Eathworm	29.7	8550	20
Others	Vermicompost	15173	118649.251	154
	Banana Special	3360.14	579424.22	765
	Vegetable Special	-	-	-
	Milk	7527.25 L	244971.5	25
	<i>Pseudomonas flurescence</i>	42	3900	18
<b>Total</b>				

**Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers
1	2	3	4	5
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others				

<b>Poultry</b>				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others				

<b>Piggery</b>				
Piglet				
Others				
<b>Fisheries</b>				
Fingerlings				
Ornamental fishes	Guppies, Mollies, Sword tails	1128	1920	11
<b>Total</b>				

#### VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2014-15

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	1683	295	1308	168300/-
Water	1482	156	112	74100
Plant	-	-	-	-
Manure	-	-	-	-
<b>Total</b>	<b>3165</b>	<b>451</b>	<b>1420</b>	<b>242400/-</b>

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted - 01

#### IX. NEWSLETTER

Number of issues of newsletter published : Nil

#### X. RESEARCH PAPER PUBLISHED

Number of research paper published - Nil

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

<b>Activities conducted</b>				
<b>No. of Training programmes</b>	<b>No. of Demonstrations</b>	<b>No. of plant materials produced</b>	<b>Visit by farmers (No.)</b>	<b>Visit by officials (No.)</b>
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