

## 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		
<b>Krishi Vigyan Kendra,</b> Regional Agricultural Research Station, P.O.Box No.18, BIJAPUR-586101	08352- 230758	08352- 230758	<a href="mailto:kvkbijapur@gmail.com">kvkbijapur@gmail.com</a>	<a href="http://www.kvkbijapur.org">www.kvkbijapur.org</a>

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, Krishi Nagar, Dharwad-05	0836- 2447494	0836- 2748199	<a href="mailto:deuasd@rediffmail.com">deuasd@rediffmail.com</a>	<a href="http://www.uasd.edu.in">www.uasd.edu.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
<b>Dr.S.Y.Wali</b> Programme Co-ordinator KVK, Bijapur	08352 - 263283	9448495346	<a href="mailto:kvkbijapur@gmail.com">kvkbijapur@gmail.com</a>

### 1.4. Year of sanction: 2004 (As Regular KVK)

**1.5. Staff Position (as 31<sup>st</sup> March 2012)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. S.Y.Wali	Programme Co-ordinator	M	Agronomy	Ph.D	37400-67000	49240	31.05.10	Per.	SC
2	SMS	Dr. I.M.Mannikeri	SMS (Horti.)	M	Horticulture	Ph.D	37400-67000	56480	10.06.11	Per.	GM
3	SMS	Dr.S.S.Karabhantanal	SMS (Ag.Entomology)	M	Ag.Entomology	M.Sc(Agri.)	15600-39100	27400	20.01.06	Per.	GM
4	SMS	Dr.S.M.Vastrad	SMS (Pl.Pathology)	M	Pl.Pathology	M.Sc(Agri.)	15600-39100	25810	01.03.06	Per.	GM
5	SMS	Dr.Prema B. Patil	SMS (H.Science)	F	Home Science	Ph.D	15600-39100	25820	22.06.07	Per.	GM
6	SMS	Dr. Suresh, B.N.	SMS (Animal science)	M	Animal Science	Ph.D	15600-39100	24330	20.07.09	Per.	GM
7	SMS	Dr. Sunilkumar Nooli	SMS(Agronomy)	M	Agronomy	M.Sc(Agri.)	15600-39100	21600	21.11.11	Per.	GM
8	Programme Assistant( Lab Tech.) /T-4	<b>Vacant</b>	-		Soil Science	-	9300-38400	13500	-	Per.	-
9	Programme Assistant (Computer)/ T-4	Mr.S.C.Rathod	Prog.Asst.. (Computer.)	M	Computer	BCA PGDCA	9300-38400	14760	16.12.08	Per.	SC
10	Programme Assistant/ Farm Manager	Mr.B.C.Kolhar	Prog.Asst. (FM.)	M	Farm Manager	M.Sc(Agri.)	9300-38400	14760	10.12.08	Per.	OBC

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/Others)
11	Assistant	Mr.S.E.Badiger	Assistant	M	Assistant	MA	10000-18150	12000	01.04.04	Per.	OBC
12	Jr. Stenographer	Mrs.A.S.Hiremath	Typist	F	Typist	B.Com	8000-14800	8400	05.10.09	Per.	GM
13	Driver	Mr.Yariswamy	LVD	M	Driver (Jeep)	7 <sup>th</sup> Pass	7275-13350	10250	23.05.05	Per.	SC
14	Driver	Mr.A.R.Mutaliksirdesai	Driver	M	Driver (Tractor)	PUC	5800-10500	6000	17.11.09	Per.	GM
15	Supporting staff	Mr.Prakash Rathod	Cook cum care taker	M	Cook-cum care taker	BA	5200-8200	5600	16.07.07	Per.	SC
16	Supporting staff	Smt.Madhumati Kenganur	Messenger	F	Messenger	SSLC	4800-7275	4800	17.06.11	Per.	GM

**1.6. Total land with KVK (in ha) : 20 ha**

S. No.	Item	Area (ha)
1	Under Buildings	0.1 ha
2.	Under Demonstration Units	-
3.	Under Crops	15 ha
4.	Orchard/Agro-forestry	02 ha
5.	Others	2.9 ha

**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
1.	Administrative Building	ICAR	April-2011	550	5500000	-	-	Completed
2.	Farmers Hostel							
3.	Staff Quarters							
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1							
	2							
	3							
	4							
5	Fencing							
6	Rain Water harvesting system	ICAR	April -2008	3165 cum	860726			Constructed
7	Threshing floor							
8	Farm godown							
9								
10								

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2001	3,24,238	5623	Good
TOYOTA Qualis	2004	4,64,034	204205	Good
Hero Honda	2009	49,500	32236	Good
Hero Honda	2009	49,500	27668	Good

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	2001	80,234	Repair
Stabilizer	2001	6,000	Good
Over-head Projector	2001	23,000	Good
Kodak DC-3200 (Digital Camera)	2002	17,000	Good
Portable Generator 2000	2003	40,130	Good
Computer with accessories	2003	67,680	Good
2 KV on line Uninterrupted power supply system for 120 mins battery backup time	2003	52,300	Good
Mipro-MVA-101 portable public address system	2003	30,240	Good
Hakims Deflex	2003	10,115	Good
Handy image presenter (Flex Vision TFV-300)	2003	53,760	Good
Tvs msp 395xl classic 136, col,24 pin 300cp)	2003	12,800	Good
Hp Desk Jet A3 Size	2003	15999	Good
Hp office jet 4110, All in one	2003	9500	Good
LG CD writer	2003	2750	Good
Single Furrow reversible plough	2003	20,250	Good
Nine fine tiller with seeding attachment	2003	26,150	Good
Three in one leveler rangale and cultivator	2003	14,500	Good
PH. Meter	2005	8,900	Good
Electrical conductivity Bridge	2005	9,790	Good
Flame Photometer	2005	32,040	Good
Visible spectro photo meter	2005	40,050	Good
Electronic automatic KEL Plus digestion system and Nitrogen distillation system	2005	1,42,844	Good
Shaking machine	2005	47,025	Good
Electronic weighing machine	2005	57,000	Good
Physical balance	2005	10,890	Good
Hot air oven	2005	16,471	Good

Hot plate	2005	2,912	Good
Grinder	2005	15,435	Good
Water distillation unit	2005	62,444	Good
Refrigerator	2005	12,285	Good
LCD with Computer	2006	96404	Good
Handy camera	2006	18450	Good
Laser guided land leveller	2011	3,89,000	Good
Generator (7.5 KVA)	2011	92,000	Good

### 1.8. Details SAC meeting conducted in 2011-12

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	11.08.2011			Objective on seed production and planting material to be added in the mandates of KVK.	Seed production programme is already under process and seed production on Bengalgram, Sorghum, Redgram has been conducted
				Sending of SMS through e-connectivity should increase to 10,000 farmers. Daily SMS to farmers during peak season.	As on today daily SMS is sent to 1700 farmers and it will be increased to 4000 farmers from April-2012.
				Promote DWR-2006 and UAS-304.	Seed production programme has been taken during 2012 rabi
				Yield of farm should be increased.	Yields have been increased and details will be presented in forth coming SAC meeting
				Disease free planting material to be purchased and promoted.	Ground nurseries will be established during Kharif-2012
				Demonstrations to be conducted around Bijapur district.	Undertaken
				Improved farm implements to be purchased and given on rent basis. Also a Museum to be established in KVK.	Museum establishment under progress

				Results of IFS to be presented	Will be presented during SAC
				Data base on Agricultural implements to be put on website.	Agriculture implements data has been uploaded in KVK website .
				Quarterly News letter to be printed.	News letter will be circulated soon.
				Success stories of vermi compost to be popularized through folder.	Folders published
				KVK website to be printed on every media.	Printed on every media
				Demonstrations unit of dairy under IFS to be implemented in the farm.	Dairy Unit of Bijapur campus is maintained by KVK, after taking over from RARS on 1-11-2011

## PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	<p>The Kharif crops are mainly grown in shallow eroded black soils (chalka soils), shallow light soils and sandy loams. On account of their low moisture retentive capacity, better infiltration rate, these soils get moistened with early rains in the month of June. The important kharif crops grown are bajra, greengram, groundnut and sunflower. Besides these main crops, pigeon pea, horsegram and sesamum are the other crops grown. Common mixed cropping systems in the region are bajra+redgram and groundnut +redgram. Minor pulses like blackgram and cowpea are also grown as mixed crops along with the above main crops, mainly in talukas which have shallow black or red sandy loam soils. The monsoon (Kharif) cropping situation covers to an extent of 25-30% of the total net cropped areas.</p> <p>If favorable early kharif monsoon rains are received the medium black soils are put under double cropping. greengram, groundnut and sunflower are grown in the kharif season followed by rabi sorghum, safflower and bengalgram in rabi season, Such double cropping situation occurs once in 3-4 years.</p> <p>In this region, rabi (post- monsoon) crops are predominately grown, covering about 56 percent of the total sown area due occurrence of vertisols and assured rainfall received by North East monsoon in the months of September and October. The important rabi crops grown are rabi sorghum, sunflower, bengalgram and wheat. Under well irrigation, where water supply is assured, generally fruit crops like banana, grape, pomegranate and lime are grown extensively in Bijapur.</p> <p>In canal irrigated command areas, double cropping is in vogue. In black soils, Bt. cotton, maize, sunflower and pulses are grown in the kharif season followed by rabi sorghum, bengalgram, wheat and sunflower in rabi/summer. In irrigated red soils, hybrid cotton, groundnut, maize and pulses are grown in kharif season followed by sunflower, maize, wheat and groundnut.</p>

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

S. No	Agro-climatic Zone	Characteristics
1	Rainfall	Bijapur district is characterized by the lowest rainfall in Karnataka state with an average rainfall of 579.0 mm. The district comprises five talukas viz Basavana Bagewadi, Bijapur, Muddebihal, Indi and Sindagi. The five talukas receive rainfall between 565 to 590 mm. About 60 per cent of the annual rainfall is received in the normal monsoon season (June-September), 14 per cent in the pre monsoon (April-May) and about 23 per cent in the post monsoon months (October-November) generally the remaining months are dry.
2	Temperature	The mean monthly maximum temperature varies from 29.3 °C (December) to a maximum of 39.0 °C (May). The mean monthly minimum temperatures are lowest (15.5 °C) during January, which increases gradually to maximum of about 23.3 °C (May)

3	Relative Humidity	The moisture content of the air in the district varies from about 35 per cent during February, March and April to a maximum of about 70 per cent in July, August and September.
4	Wind velocity	The district is characterized by high wind velocity especially during monsoon months. The wind speed varies between 3.6 KMPH (December) to 13.2 KMPH (July)

S. No	Agro ecological situation	Characteristics
1	Rainfed cropping in Monsoon (Kharif)	Soils are shallow black( chalka) shallow light soil and red sandy loams because of better infiltration rate they get moistened with early rain in the month of June-July sufficient to take up sowing of kharif crops. Due to low water holding capacity of these soils and higher evaporative demand due to very high wind velocity during July and August month result in poor yields <b>Tqs:</b> B. Bagewadi, Indi, Sindgi and Bijapur <b>Crops:</b> Bajra, greengram, redgram, sunflower and groundnut
2	Rainfed cropping in Monsoon (Rabi)	Deep black soils with more than 60 cm depth, the clay content of these soils is around 60% and hence very low infiltration rate Available water holding capacity of these soils is around 6 cm to 30cm. The crops grown in the post monsoon season have to mature on the residual soil moisture only. <b>Tqs:</b> B. Bagewadi, Muddebihal, Sindgi and Bijapur <b>Crops:</b> Rabi sorghum, bengalgram and sunflower
3	Rainfed in both monsoon and post monsoon	Soils are medium deep black, fine red clay loam, red and black mixed soils. These soils have around 30-50 % clay content with Infiltration rate and fairly high water holding capacity. Poor investment capacity of the farmers in dry areas and lack of suitable non-cash inputs. Tqs: B. Bagewadi, Indi, Sindgi, Muddebihal and Bijapur Crops: Bajra, greengram, redgram, sunflower and groundnut
4	Medium deep black soil with kharif irrigation	Tqs: B. Bagewadi Crops: Onion, maize, cotton and redgram
5	Red soil and shallow soils with kharif irrigations	Tqs: Indi Crops: Groundnut
6	Medium to deep black soil with rabi irrigation	Tqs: B. Bagewadi, Indi, Sindgi Crops: Wheat and Onion
7	Cropping with biseasonal irrigation	Tqs: Indi and Bijapur Crops: Cotton and redgram
8	Cropping with perennial irrigation	Tqs: Indi, Sindgi and Bijapur Crops: Sugarcane, grape, pomegranate, banana and lime

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Shallow black soil	Shallow black soils are generally noticed in Indi, Sindagi and Bijapur talukas and to some extent in Bagewadi and Muddebihal talukas. The clay content of these soils is around 40 percent with moderate infiltration rate. The available water holding capacity of these varies between 3-4 cm per 30 cm soil depth. These soils generally belong to land capability class between III and IV.	2,62,586
2	Medium black soil	Medium deep black soils occur predominantly in Bagewadi, Bijapur and Sindagi talukas. These soils have clay content around 50 per cent with low to moderate infiltration rate. Generally they belong to land capability class between II and III. The available water holding capacity of these soils is around 5 cm per 30 cm	4,01,737
3	Deep Black soils	Deep black soils predominately occur in Muddebihal, Bijapur and B.Bagewadi talukas, The clay content of these soils is around 60 per cent and hence have very low infiltration rate. In general, these soils fall under land capability class-II. Post – monsoon cropping is most common on these soils. The available water holding capacity of these soils is around 6 cm per 30 cm soil depth.	2,34,113
4	Red loam soils	This type of soil is found in immediate association with black soils and near hillocks. The depth varies from 15 to 100 cm and the clay content is around 30 percent according to topography and parent material from which they are formed and extent of weathering. These soils show moderate to good infiltration rate. The soils are neutral to slightly alkaline in reaction, deficient in nitrogen and phosphorus but contain moderate amount of potassium. The soil can hold about 4 cm of available water per 30 cm soil depth.) The soils generally fall under land capability class-III. Such soils are predominantly found in B.Bagewadi and Indi talukas Such soils are predominantly put under kharif crops and under favorable seasonal conditions double cropping is noticed	48,061
5	Red sandy soils	Red soils are derived from any one of the four parent materials viz. granite, gneiss, quartz or sand stone. The soils originated from granites or gneiss exhibit deep red or brown colour due to the presence of ferric oxide to the extent of 5 to 8 percent with varying degrees of hydration. The depth of soil varies according to topography. Soil depth to an extent of 2.0 m is also noticed. The ph of soil varies from 6.5 to 7.5. The profile is invariably free from lime and contains a few iron concretions scattered throughout the profile. The soils have good drainage and high infiltration rate. They respond well to manuring and irrigation.	20,230

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
<b>Crop production</b>				
1	Maize (K)	31646	83714	2645
2	Bajra	25809	11660	525
3	Minor millets	1342	402	300
4	Redgram	48162	22064	458
5	Horsegram (K)	15689	3921	250
6	Horsegram (Rabi)	3260	976	300
7	Greengram	3425	342	100
8	Cowpea (K)	13888	2776	200
9	Cowpea and other pulses(rabi)	840	232	276
10	Groundnut	21882	18318	837
11	Sunflower	155318	97220	625
12	Niger	1512	467	308
13	Sesamum	1733	259	150
14	Soyabean	318	222	700
15	Cotton	5279	7562	1432
16	Sugarcane (K)	24290	2429000(t)	100 (t/ha)
17	Sugarcane(Rabi)	21428	2142800(t)	100 (t/ha)
18	Sugarcane(Summer)	4935	493500(t)	100 (t/ha)
19	Sorghum	239931	174522	750
20	Wheat	69824	73251	1040
21	Bengalgram	156892	119278	760
22	Safflower	10063	4651	461
23	Linseed	5419	1624	300
<b>Fruit crops</b>				
1	Mango	246	1722	07(t/ha)
2	Banana	618	14214	23(t/ha)
3	Lime	2787	69675	25(t/ha)
4	Guava	107	2140	20(t/ha)
4	Sapota	232	2320	10(t/ha)
5	Pomegranate	1107	7749	7.0(t/ha)
6	Papaya	36	1260	35(t/ha)
7	Ber	150	4500	30(t/ha)
8	Custard Apple	64	448	07(t/ha)
9	Grape	5464	80832	15(t/ha)
10	Fig	28	84	03(t/ha)
11	Other fruit crops	95	380	04(t/ha)

<b>Vegetable crops</b>				
1	Tomato	1181	37370	31.64(t/ha)
2	Brinjal	527	13175	25(t/ha)
3	Beans	62	372	06(t/ha)
4	Onion	9756	243726	24(t/ha)
4	Green chilli	1036	7252	07(t/ha)
5	Sweet Potato	105	1260	12(t/ha)
6	Cabbage	06	102	17(t/ha)
7	Cauli flower	08	136	17(t/ha)
8	Lady's finger	352	2464	07(t/ha)
9	Radish	210	21100	10(t/ha)
10	Beet root	05	65	13(t/ha)
11	Carrot	195	4095	21(t/ha)
12	Capsicum	49	441	09(t/ha)
13	Cluster beans	128	1024	08(t/ha)
14	Drum stick	102	1122	11(t/ha)
15	Water melon	23	644	28(t/ha)
16	Methi	195	1950	10(t/ha)
17	Palak	115	1150	10(t/ha)
18	Amaranthus	37	296	08(t/ha)
19	Curry leaves	120	600	05(t/ha)
20	Other leafy vegetables	133	665	05(t/ha)
21	Ash gourd	10	210	21(t/ha)
22	Snake gourd	51	867	17(t/ha)
23	Bitter gourd	86	774	09(t/ha)
24	Ridge gourd	120	960	08(t/ha)
25	Other gourds	66	660	10(t/ha)
26	Other vegetables	126	882	07(t/ha)
<b>Spice crops</b>				
1	Tamarind	240	1200	05(t/ha)
2	Turmeric	61	549	09(t/ha)
3	Garlic	515	6180	12(t/ha)
4	Dry chillies	832	4160	05(t/ha)
5	Coriander	599	2396	04(t/ha)
6	Fenugreek	149	447	03(t/ha)
7	Other spice crops	133	798	06(t/ha)
<b>Plantation crops</b>				
1	Coconut	283	14.72 lakh nuts	0.05 lakh nuts
2	Betelvine	31	620 lakh leaves	20 lakh leaves
3	Oil palm	522	-	-
4	Other garden / plantation crops	123	861	07

<b>Flower crops</b>				
1	Aster	06	03	0.5(t/ha)
2	Crossandra	02	02	1(t/ha)
3	Marigold	152	1520	10(t/ha)
4	Jasmine	63	441	07(t/ha)
5	Chrysanthemum	58	348	06(t/ha)
6	Tuberose	47	150	03(t/ha)
7	Rose (Lakh flowers)	77	77	01(t/ha)
8	Gerbera (Lakh flowers)	22	22	01(t/ha)
9	Other flower crops	62	186	03(t/ha)
<b>Medicinal and Aromatic plants</b>				
1	Medicinal plants	57	171	03(t/ha)
2	Lemon grass	24	168	07(t/ha)
3	Other Aromatic plants	45	135	03(t/ha)

\* District profile from statistical department

#### 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	I	II
April-2011	28.4	37.3	22.4	62	26
May-2011	46.1	38.1	23.4	77	41
June-2011	37.7	32.6	22.2	89	68
July-2011	79.1	36.3	25.3	89	63
August-2011	96.6	30.2	21.7	89	65
September-2011	32.4	37.1	20.7	87	54
October-2011	26.1	32.1	20.8	82	50
November-2011	0.0	30.9	16.1	73	38
December-2011	0.0	30.5	13.5	77	34
January-2012	0.0	30.8	14.3	66	29
February-2012	0.0	33.9	16.7	51	23
March-2012	0.0	37.1	9.0	47	23

\* Agrometic Advisory Service,RARS,Bijapur

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	1204	1600 tons milk	4.340 lit/day /animal
<i>Indigenous</i>	277980	40,000 tons milk	1.515 lit/ day /animal
<b>Buffalo</b>	191422	59,000 tons milk	1.592 lit/ day /animal
<b>Sheep</b>			
<i>Crossbred</i>			
<i>Indigenous</i>	3350918	75 tones meat	18kg mutton /animal
<b>Goats</b>	451980	80 tones meat	16 kg chevon /animal
<i>Crossbred</i>	32	NA	6 kg/ animal
<i>Indigenous</i>	27173	NA	6 kg/ animal
<b>Rabbits</b>	38	NA	
<b>Poultry</b>			
<b>Hens</b>	346372		
<i>Desi</i>	169200	157 lakh eggs	93 eggs/bird
<i>Improved</i>	36400	86 lakh eggs	238 eggs/bird

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

\* District profile from statistical department

2.7 District profile has been **Updated** for 2011-12 Yes / No: **Yes**

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	<b>Bijapur</b>		Atalatti, Tajpur and Kanmuchnal	2009-10 2010-11 2011-12	Bajra, Maize, Sorghum, Groundnut, Sunflower, Durum wheat, Bengalgram, Gaillardia, Chrysanthemum, Grape, lime, pomegranate	Moisture stress, water scarcity, non availability of high yielding varieties in sorghum, Durum wheat, Gaillardia, chrysanthemum, bengalgram poor nutrition in groundnut, pest and disease in grape, Gaillardia, onion, Chrysanthemum, bengalgram and sunflower	Soil and water conservation practices in dryland areas. Introduction of varieties in sorghum, Durum wheat, bengalgram and sorghum, pest and disease management in grape, Gaillardia, Chrysanthemum, bengalgram and sunflower

					Live stock	Poor nutrition and diseases in animals	Management of animals for higher productivity, Creation of self employment opportunities.
					Home science	Drudgery and unemployment	Self employment opportunities and drudgery reduction
2	B.Bagewadi		Golsangi, Biraldinni and Tadalgi	2009-10 2010-11 2011-12	Greengram , Redgram, Bengalgram, Groundnut, Sunflower, Sorghum, Wheat, (irrigated), Onion and Banana	Moisture stress, non availability of suitable variety in onion, sorghum, greengram, bengalgram , poor nutrition in redgram and banana, green gram pest and diseases in redgram, sunflower wheat and banana, labour problem	Soil and moisture conservation practices, Introduction of high yielding variety in onion, greengram, sorghum, bengalgram and wheat, Nutrient management in banana and disease management in banana, wheat sunflower.
					Live stock – Goats, backyard poultry, local cattles	Poor nutrition, Pest and disease in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment	Self employment opportunities and drudgery reduction

3.	<b>Indi</b>		Dhulkhed and Chanegoan , Jambagi , Aheri	2009-10 2010-11 2011-12	Maize, Sorghum, Wheat, redgram, bengalgram, Sugarcane, Lime, Pomegranate Banana	Moisture stress, water scarcity, non availability of high yielding varieties in onion, sorghum, wheat pest in redgram, pest & disease in lime and pomegranate, poor flowering in lime in hasta bahar , bacterial wilt in banana	Soil and water conservation practices in dryland areas, Introduction of variety in onion, sorghum, sugarcane nutrient management for sugarcane groundnut, pest and disease management in lime, bacterial blight and scab management in pomegranate. Bacterial wilt management in banana
					Sheep & Goat rearing	Poor nutrition and diseases in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment,	Self employment approaches and drudgery reduction
4	<b>Sindagi</b>		Balaganur Kondguli and Nagarhalli	2010-11 2011-12	Maize, Sorghum, Wheat, redgram, bengalgram, Sugarcane, Lime	Moisture stress, water scarcity, non availability of high yielding varieties in onion, sorghum, wheat, pest and disease in redgram, lime poor flowering, canker and mite	Soil and water conservation practices in dryland areas, Introduction of variety in onion, sorghum, nutrient management in sugarcane and groundnut, pest and disease management in lime.

					Sheep & Goat rearing	Poor nutrition and diseases in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment,	Self employment approaches and drudgery reduction

## 2.9 Priority thrust areas

S. No	Thrust area
1	Moisture conservation
2	Introduction of new varieties/hybrids and crops
3	Nutrient Management
4	Management of pest and diseases
5	Production of quality produces
6	Management of livestock
7	Fodder and disease
8	Drudgery reduction
9	Creation of self-employment opportunities

## **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>
09	08	45	35	31	26	377	317

<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>
111	158	2775	4238	100	128	10000	21,66298

<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>
-	83.9	-	4000

<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>
-	20	-	

**3.B1. Abstract of interventions undertaken based on thrust areas identified for the district as given in Sl.No.2.7**

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
														No.	Kg
1	Promotion of variety	Greengram	Moisture stress, low yielding varieties	-	SARA method BGS-9 (non shattering variety), Seed treatment with biofertilizers	01	-	01	Group meeting	0.60 q					
2	Promotion of variety	Redgram	Moisture stress, podborer, wilt	-	Introduction of TS -3R in redgram	2	-	1	Group meeting Radio talk Folder	0.60 q					
3	Moisture conservation and Disease management	Sunflower	Low yielding hybrids, Moisture stress, powdery mildew and necrosis	-	Introduction of KBSH -53 powdery mildew tolerant hybrid	2	1	1	Group meeting Radio talk Folder	0.25q					

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
													No.	Kg	
4	Popularization of Bt hybrid	Cotton	Water scarcity and bollworm	-	ICM in Bt Cotton	2	1	1	Group meeting Radio talk Folder	0.25 q					
5	Promotion of variety	Onion	Lack of awareness about suitable varieties, low returns in delayed season Pest and diseases	Ridge planting in onion  Management of onion thrips	Introduction of new variety arka kalyan with pest and disease management in onion	2	0	1	Group meeting Radio talk Folder	0.30					

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
														No.	Kg
6	Promotion of variety	Sorghum	Non availability of HY varieties and poor nutrition	Promotion of early maturing variety for shallow soils Anuradha	Introduction of high yielding and non lodging variety (CSV-22 ) and management of charcoal rot in rabi sorghum	2	0	1	Group meeting Radio talk Folder	1.0 q					
7	Promotion of variety	Bengalgram	Non availability of HY varieties, pod borer and wilt in bengalgram	-	ICM in JG-11 high yielding variety	2	0	2	Group meeting Radio talk Folder	8.5 q					
8	Promotion of variety	Wheat	Non availability of HY varieties, rust	-	Introduction of UAS-304 Variety Management of Rust of wheat	1	0	1	Group meeting Radio talk Folder Field day News coverage	2.5 q					

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
													No.	Kg	
9	IDM	Pomegranate	Bacterial blight management . Need for production of export quality pomegranate , lack of thorough knowledge about bahar management	Management of scab in pomegranate	Management of bacterial blight in pomegranate	2	01	1	Group meeting Radio talk Folder Field day News coverage						
10	IPM and health management of worker	Grape	Mealy bug, flea beetle and injury to palms due to hydrogen cyanamide	1. Use of garlic extract for bud breaking	Management of mealybug in grapes	1	0	1	Group meeting Field day Radio talk						
11	IPM	Brinjal	Shoot and fruit borer	Management of Shoot and fruit borer	-	1	1	1	Group meeting						

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
														No.	Kg
12	ICM	Summer groundnut	Scarcity of water, thrips, micronutrients deficiency		ICM in summer groundnut	1	1		Group meeting Field day Training						
13	Management of livestock	Dairy Animals	Poor nutrition	Bypass fat feeding	-	03	06	-	-	-	-	-	-	10	30 kg
14	Management of livestock	Dairy Animals	Poor nutrition	Area specific of mineral mix	-	-	-	-	-	-	-	-	-	10	30 kg
15	Management of livestock	Dairy Animals	Poor nutrition	-	Azolla cultivation	-	-	-	-	-	-	-	-	10	2 kg
16	Management of livestock	Dairy Animals	Poor nutrition	-	Ectoparasites eradication	-	-	-	-	-	-	-	-	20	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										No.	Kg
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
17	Management of livestock	Dairy Animals	Poor nutrition	-	Improved fodder crops	-	-	-	-	-	10,000 hybrid napier root slips	-	-	-	-
18	Management of livestock	Goat and sheep	Poor nutrition and diseases	-	Urea molasses mineral block licks to goats	-	-	-	-	-	-	-	-	05	15 kg
19	Management of livestock	Goat and sheep	Poor nutrition and diseases	-	Vaccination and deworming	-	-	-	-	-	-	-	-	10	-
20	Management of livestock	Poultry	Low productivity in local birds	-	Swarnadhara birds for backyard	-	-	-	-	-	-	-	300 Swarnadhara birds	-	-

S. No	Thrust area	Crop/Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
21	Management of livestock	Poultry	Non availability of commercial chicks	-	Raja 2 broilers for small scale farming	-	-	-	-	-	-	700 Raja 2 chick	-	-
22	Drudgery reduction	Home science	High cost of weeding and drudgery	-	Hand wheel hoe weeder with tynes	2 Nos	-	-	-	-	-	-	-	-
23	Drudgery reduction	Home science	Injury to palms	-	Cloth gloves for harvesting of bengalgram	3 Nos	-	-	-	-	-	-	-	-
24	Drudgery reduction	Home science	More time consumption and injury to tip of fingers	-	Groundnut decorticator	3 Nos	-	-	-	-	-	-	-	-
25	Health management	Home science	Respiratory problems and eye sight problem	-	Envirofit chulla	5 Nos	-	-	-	-	-	-	-	-
26	Drudgery reduction	Home science	Harvest losses	-	lemon harvester	2 Nos	-	-	-	-	-	-	-	-

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

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Field day/ Group meeting)
1	2	3	4	5	6	7	8
1.	Promotion of variety (BGS-9) in greengram	UAS, Raichur	Greengram	-	12		1
2.	Promotion of Hybrid (Arjun) in Maize	UAS, Dharwad	Maize	-	12	1	1
3.	Moisture conservation and powdery mildew management in sunflower (KBSH-53)	UAS, Bangalore	Sunflower	-	25	2	2
4.	Introduction of variety Arka kalyan in onion	IIHR, Bangalore	Onion	-	12	1	1
5.	Thrips management in onion	Farmers	Onion	05		1	1
6.	Ridge planting in onion	Farmers	Onion	05		1	1
7.	ICM in Bt cotton	UAS, Dharwad	Cotton	-	20	2	2
8.	Introduction of variety (TS-3R) and IPM	UAS, Raichur	Redgram	-	12	2	2
9.	Introduction of variety(CSV 22)	NRCS, Hyderabad	Sorghum	-	12	2	2
10.	Introduction of variety(Anuradha)in shallow soils	MPKV, Rahuri	Sorghum	05			
11.	Introduction of variety (UAS-304)	UAS, Dharwad	Wheat	-	12	1	1
12.	Rust management in wheat	UAS, Dharwad	Wheat	-	12	1	1
13.	Introduction of variety (JG-11) and ICM	UAS, Dharwad	Bengalgram	-	12	1	1
14.	ICM in safflower	UAS, Dharwad	Safflower	-	12	1	1
15.	Bacterial blight management	UAS, Dharwad	Pomegranate	-	10	2	1
16.	Scab management	Progressive farmers	Pomegranate	5		1	1
17.	Mealy bug management,	UAS, Dharwad	Grape	-	10	1	1
18.	Garlic extract for bud break in grape	J.American Soc.Horti.sci., 117, 898-901 (1992) Australina J.Expt. Agric..47,1-4(2007)	Grape	5		1	1
19.	Shoot and fruit borer in brinjal	IIHR,Bangalore	Brinjal	5		0	1
20.	ICM in summer groundnut	UAS, Dharwad	Groundnut	-	12	02	02
21.	Canker management in Lime	UAS, Dharwad	Lime	-	12	1	1

22.	Supplementation of Bypass fat in Dairy animals	NDRI,Karnal	Live stock	10	-	08	-
23.	Area specific mineral mixture for cattle	NIANP,Bangalore	Live stock	10	-	08	-
24.	Azolla cultivation and feeding to dairy animals	TNAU, Coimbatore	Livestock	-	10	10	-
25.	Introduction of hybrid Napier varieties	TNAU,Coimbatore	Livestock	-	10	10	-
26.	Eradication of ecto parasite using ivermectin inj.	Veterinarian practice	Livestock	-	20	10	-
27.	Vaccination and deworming in goats	Veterinarian practice	Livestock	-	10	08	-
28.	UMMB licks for goats	TNUVAS,Chennai	Livestock	-	05	08	-
29.	Introduction of Swarnadhara Birds for egg	KVAFSU,Bidar	Livestock	-	6	02	-
30.	Introduction of Raja 2 broiler birds for meat	KVAFSU, Bidar	Livestock	-	6	02	-
31.	Hand wheel hoe weeder with tynes	NGO Udagiri, Maharastra	Hand wheel hoe Weeder	-	10	-	-
32.	Cloth gloves	KVK,Bijapur	Bengalgram	-	10	-	-
33.	Groundnut decorticator	GKVK,Bangalore	Groundnut	-	10	-	-
34.	Envirofit chulla	Colarado university	-	-	10	-	-
35.	Lemon harvester	IIHR,Bangalore	Lemon	-	10	-	-

### 3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Field day/ Group meeting)			
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
-	-	-	-	07	-	04	01	-	-	-	-	20	04	10	00
-	-	-	-	08	-	04	-	32	12	08	0	35	-	12	-
-	-	-	-	20	-	05	-	-	-	-	-	12	04	07	01
-	-	-	-	10	-	02	-	21	03	14	-	11	05	07	01
04	-	01	-	-	-	-	-	18	07	11	-	22	-	07	-
04	-	01	-	-	-	-	-	20	-	07	-	17	06	-	-
-	-	-	-	14	02	04	-	78	07	13	02	38	14	13	04
-	-	-	-	10	-	02	-	20	05	04	02	22	02	02	0
-	-	-	-	10	-	02	-	15	04	03	01	09	02	10	01
02	-	03-	-	-	-	-	-	-	-	-	-	-	-	-	-

-	-	-	-	08	-	04	-	23	04	11	02	30	-	10	-
-	-	-	-	07	-	05	-	22	0	11	0	33	0	-	-
-	-	-	-	10	-	02	-	24	02	08	-	30	02	10	01
-	-	-	-	08	-	04	-	35	0	08	0	28	-	17	-
-	-	-	-	15	02	03	-	8	14	18	12	35	12	15	-
04	-	01	-	-	-	-	-	4	01	15	-	15	05	10	01
-	-	-	-	07	0	02	01	25	02	10	-	09	01	07	01
04	-	01	-	-	-	-	-	15	02	10	01	12	-	11	1
04	-	01	-	-	-	-	-	-	-	-	-	07	02	-	-
			-	10	-	2	-	35	10	07	02	13	05	07	-
-	-	-	-	08	-	04	-	27	08	10	03	10	02	-	-
04	02	03	01	-	-	-	-	25	10	12	04	-	-	-	-
04	02	03	01	-	-	-	-	25	10	12	04	-	-	-	-
-	-	-	-	05	-	04	01	54	25	16	08	-	-	-	-
-	-	-	-	05	-	03	02	54	25	16	08	-	-	-	-
-	-	-	-	15	02	03	0	54	25	16	08				
-	-	-	-	09	01	-	-	54	25	16	08	-	-	-	-
-	-	-	-	04	01	-	-	40	12	08	02	-	-	-	-
-	-	-	-	04	01	01	-	49	03	10	05	-	-	-	-
-	-	-	-	03	01	01	01	49	03	10	05	-	-	-	-
-	-	-	-	-	07	-	03	-	08	-	06	-	-	-	-
-	-	-	-	-	06	-	04	-	20	4	-	-	-	-	-
-	-	-	-	-	06	-	04	02	12	02	8	-	-	-	-
-	-	-	-	-	03	-	07	02	15	02	14	-	-	-	-
-	-	-	-	06	02	-	02	02	10	04	02	-	-	-	-

## PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Comm ercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	01									01
Integrated Pest Management					02					02
Integrated Crop Management					01					01
Integrated Disease Management						01				01
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>01</b>				<b>03</b>	<b>01</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						01				01
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
<b>Total</b>						<b>01</b>				<b>01</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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Sorghum	Promotion of early maturing variety Anuradha	05	05	0.4 ha
Integrated Pest Management	Brinjal	Management of shoot and fruit borer in Brinjal	05	05	0.4 ha
	Onion	Thrips management in onion	05	05	0.4 ha
Integrated Crop Management	Onion	Ridge planting in onion with drip irrigation	05	05	0.4 ha
Integrated Disease Management	Pomegranate	Scab management in pomegranate	05	05	0.4 ha
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Seed / Plant production					
Value addition					
Total			25	25	2.0 ha

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Grape	Use of garlic extract for bud breaking in grape	05	05	0.4 ha
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
<b>Total</b>	<b>01</b>		<b>05</b>	<b>05</b>	<b>0.4 ha</b>

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

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>No. of farmers</b>
Evaluation of breeds				
Nutrition management	Cattle	Supplementation of bypass fat in post calving dairy cows	10	10
Disease management	Cattle	Supplementation of Area specific mineral mixtures in dairy Cattle	10	10
<b>Total</b>			20	20

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

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>No. of farmers</b>
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

##### 1. 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
Sorghum	Rainfed	Low yields in shallow soils	Promotion of early maturing variety Anuradha	05	FP/RPP- M 35-1	Yield and days to maturity	110 days	3.2 q/ha	Bold grains		
					Alt-Anuradha	Yield and days to maturity	130 days	4.0 q/ha	Early maturing and bold grains		

##### 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)	FP/RPP- M 35-1	3.2 q/ha	4.0 q/ha	6000	2.67
Technology option 2	Alt-Anuradha	4.0 q/ha	3.2 q/ha	8400	3.3
Technology option 3					

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

1	Title of Technology Assessed	: <b>Promotion of early maturing variety Anuradha for shallow soils</b>
2	Problem Definition	: Low yields in shallow soils
3	Details of technologies selected for assessment	: Anuradha is early maturing variety performs better in shallow soils
4	Source of technology	: MPKV, Rahuri
5	Production system and thematic area	: Promotion of variety and rainfed
6	Performance of the Technology with performance indicators	: Good yields with good grain character
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	
8	Final recommendation for micro level situation	: Anuradha performs better in shallow soils
9	Constraints identified and feedback for research	:
10	Process of farmers participation and their reaction	: Participatory and good yield

#### 4.C1. Results of Technologies Assessed

##### 2. 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
Pomegranate	Irrigated	Scab disease	Scab management in pomegranate	05	FP/RPP- Carbendazim 1 g/lit	% disease index and yield	24.60 PDI	4.8	Spots on fruits fetch es low price		
					Alt- Tricyclozole 1 g/lit		18.00 PDI	5.2	Fungicide manages disease efficiently		

##### 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)	FP/RPP- Carbendazim 1g/lit	4.8 t/ha	t/ha	1,32,480	3.00
Technology option 2	Tricyclozole 1g/lit	5.2 t/ha	t/ha	1,78,480	4.36
Technology option 3					

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

- |    |  |   |
|----|--|---|
| 1  | Title of Technology Assessed   | : <b>Scab management in pomegranate</b>   |
| 2  | Problem Definition   | : Scab disease  |
| 3  | Details of technologies selected for assessment  | : Spraying with tricyclozole @1 g/lit   |
| 4  | Source of technology   | : Adhoc recommendation  |
| 5  | Production system and thematic area  | : IDM and irrigated   |
| 6  | Performance of the Technology with performance indicators  | : Disease managed effectively with good marketable yield                                    |
| 7. | Feedback, matrix scoring of various technology parameters done through farmer's participation other scoring techniques | : % Disease index   |
| 8  | Final recommendation for micro level situation   | : Spraying of tricyclozole @ 1 ml/lit manage the disease effectively                        |
| 9  | Constraints identified and feedback for research   | : Recently this disease caused by <i>Alternaria</i> is becoming serious during mrugha bahar |
| 10 | Process of farmers participation and their reaction  | : Participatory and disease was well managed  |

### 3. 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 assessm ent	Feedback from the farmer	Any refinement done	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Onion	Irrigated		Ridge planting in Onion	05	FP/RPP- Broad bed planting	Yield and bulb diameter and rotting %	350 q/ha	23%	Rotting of bulbs and uneven size		
					Alt-Ridge planting	Yield and bulb diameter and rotting %	480 q/ha	4%	No rotting of bulbs and even size bulbs		

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)/ RPP	FP/RPP- Broad bed planting	q/ha	350 q/ha	78,650	3.00
Technology option 2	Alt-Ridge planting	q/ha	480 q/ha	1,10,480	4.36

**4.D.2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:**

- 1 Title of Technology assessment : **Ridge planting in onion with drip irrigation**
- 2 Problem Definition : Uneven bulb size and rotting of bulbs and less plant population
- 3 Details of technologies selected for assessment : Ridge planting in onion with drip irrigation
- 4 Source of technology : NRC for onion and garlic
- 5 Production system and thematic area : ICM and irrigated
- 6 Performance of the Technology with performance indicators : Rotting managed effectively with good marketable yield
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Rotting %
- 8 Final recommendation for micro level situation : Even bulb size and non rotting of bulbs and uniform plant population
- 9 Constraints identified and feedback for research : Special implement for formation of ridge is needed
- 10 Process of farmers participation and their reaction : Participatory and rotting well managed

#### 4. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Paramete rs of assessme nt	Data on the parameter	Results of assessment	Feedbac k from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Brinjal	Irrigated	Fruit and shoot borer	Management of shoot and fruit borer in Brinjal	05	FP/RPP- carbaryl (4g/lt)  Alt- Carbosulfan (2.0 ml / l)	% fruit damage	18.36 %  7.52 %	412 (q/ha)  505(q/ha)	4 no of sp rays reduced		

#### 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)/RPP		412	q/ha	212500	5.18
Technology option 2		505	q/ha	265000	7.36

**4.C2. Details of each On Farm Trial to be furnished in the following format separately as per the proforma below**

1	Title of Technology Assessed	: <b>Management of shoot and fruit borer in Brinjal</b>
2	Problem Definition	: Shoot and fruit borer reduce the yield upto 75%( 8 Spary)
3	Details of technologies selected for assessment	: carbosulfan (2ml/lit)- 4 sprays
4	Source of technology	: Farmers
5	Production system and thematic area	: Irrigated and IPM
6	Performance of the Technology with performance indicators	: New chemical manages pest efficiently
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	: No. of sprays will be more hence production cost increases and environmental hazard
10	Process of farmers participation and their reaction	: Participatory and alternate option is more effective

### 5. 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 done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Onion	Rainfed	Thrips	Thrips management in onion	05	FP/RPP-Dimethoate @ 1.75 ml/lit (2 spray)	Thrips/pl	21.40	58.10 (q/ha)	Pest managed effectively		
					Alt1:Lambda cyhalothrin 0.5 ml / lit (2 spray)	Thrips/pl	6.35	72.64 (q/ha)			

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)/RPP		58.10	q/ha	80,800	4.9
Technology option 2		72.64	q/ha	1,02,800	7.6

#### 4.C2. Details of each On Farm Trial to be furnished in the following format separately as per the proforma below

- |    |  |   |
|----|--|---|
| 1  | Title of Technology Assessed   | : Thrips management in onion                              |
| 2  | Problem Definition   | : Severe thrips infestation reduces the yield and quality |
| 3  | Details of technologies selected for assessment/refinement   | : λ- cythothrin (0.5ml / l) 2 sprays & maize as a border  |
| 4  | Source of technology   | : NRC Onion and Garlic, Rajgurunagar                      |
| 5  | Production system and thematic area  | : Rainfed and IPM   |
| 6  | Performance of the Technology with performance indicators  | : Manages pest efficiently                                |
| 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  | : Participatory and alternate option is effective         |

### 6. 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
Live stock	-	Poor nutrition	Supplementation of Bypass fat in post calving dairy cows	10	Feeding dry fodder, green fodder, groundnut cake & boosa	Milk yield , (lt/day)	FP: 10.20 TO1:12.30 TO2:13.70	Improved milk yield			
					Feeding dry fodder, green fodder, concentrate feed @ 1 kg/2.5 l milk production, mineral mixture 50 g/day	Milk fat (%)	FP: 3.3 TO1:3.5 TO2:3.8	Increased milk fat content	Heat symptoms were easily observed		
					Feeding dry fodder, green fodder, concentrate feed @ 1 kg/2.5 lt milk production, mineral mixture 50 g/day, bypass fat 150 g/day/cow	no. of open days	FP: 190 TO1:145 TO2:148	Reduced inter calving intervals	Heat symptoms were easily observed		

### 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 practice	10.20 lt milk/day	Lt/day	16524	1.43
Technology option 2	NIANP, Bangalore	12.30 lt milk/day	Lt/day	27564	1.71
Technology option 3	NDRI, Karnal	13.70lt/day	Lt/day	34324	1.87

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

- 1 Title of Technology Assessed : **Supplementation of Bypass fat in post calving dairy cows**
- 2 Problem Definition : Poor nutritional management of post-parturient cow
- 3 Details of technologies selected for assessment : Feeding bypass fat @100-150g/day/animal
- 4 Source of technology : NDRI, Karnal
- 5 Production system and thematic area : Livestock & poor nutrition
- 6 Performance of the Technology with performance indicators : Increased milk yield & fat content, reduced no. of open days
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation : By pass fat @100-150g/day/animal
- 9 Constraints identified and feedback for research : Nil
- 10 Process of farmers participation and their reaction : Participatory and alternative option is effective

### 7. 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
Live stock	-	Poor nutrition	Supplementation of Area Specific Mineral mixtures in Dairy Cattle	10	No mineral supplement	Conception rate (%)	FP: 0 TO1:40 TO2:60	Reduced repeat breeding problem			
					Area Specific Mineral mixtures in Dairy Cattle @ 50-100g/day	Avg. No. of inseminations /conception	FP: - TO1: 2 TO2: 2	Reduced no of insemination required	Noticed increased feed consumption		
					Annapurna mineral mixture @ 50-100g/day	Milk yiled (lt/day)	FP: 8.60 TO1:8.90 TO2:9.50	Increased milk yield	Noticed increased feed consumption		

### 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 practice	-	None conceived	-	-
Technology option 2	NIANP,Bangalore	-	40 % repeat bred animal conceived	-	-
Technology option 3	UAS, Dharwad	-	60 % repeat bred animal conceived	-	-

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

- 1 Title of Technology Assessed : **Supplementation of area specific mineral mixtures in dairy cattle**
- 2 Problem Definition : Poor nutritional management of post-parturient cow
- 3 Details of technologies selected for assessment : Feeding mineral mixture @50-100g/day/animal
- 4 Source of technology : NIANP, Bangalore
- 5 Production system and thematic area : Livestock & poor nutrition
- 6 Performance of the Technology with performance indicators : Increased milk yield & fat content, reduced repeat breeding
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation : Mineral mixture @50-100g/day/animal
- 9 Constraints identified and feedback for research : Nil
- 10 Process of farmers participation and their reaction :-

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

##### 1. Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology refined	Parameters of refined t	Data on the parameter	Results of refinement	Feedback from the farmer	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11
Grape	Irrigated	Use of dormex causes injury to palm	Use of garlic extract for bud breaking	05	FP- application of dormex (3%) Alt 1-application of garlic extract (20 %) Alt 2-application of garlic extract(25%)	bud burst percentage	85%  44%  52%			

##### Contd..

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	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
Technology Option 1 (best performing Technology Option in assessment)	FP- application of dormex (3%)				
Technology Option 2 (Modification over Technology Option 1)	Alt 1-application of garlic extract (20 %)				
Technology Option 3 (Another Modification over Technology Option 1)	Alt 2-application of garlic extract(25%)				

**4.C2. Details of each On Farm Trial to be furnished in the following format separately as per the proforma below**

1	<b>Title of Technology refinement</b>	<b>: Use of garlic extract for bud breaking in grape</b>
2	Problem Definition	: Use of dormex cause wounds to hands
3	Details of technologies selected for assessment/refinement	: Use of garlic extract for bud breaking @ 5% and @ 10%
4	Source of technology	: Research findings
5	Production system and thematic area	: Irrigated and health management
6	Performance of the Technology with performance indicators	: Safe to use
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	: Participatory

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented during 2011-12**

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	Oilseeds	Rainfed	Late Kharif 11	Sunflower		KBSH-53	IDM	Powdery mildew management Vs Farmers practice	20	20	05	15	20	Vitiated due to moisture stress
2		Irrigated	Summer 11-12	Groundnut	TMV-2		ICM	TMV-2 with ICM Vs Farmers practice	05	05	02	8	10	-
3		Rainfed	Rabi 11	Safflower	A-1	-		A-1 with ICM Vs Farmers practice	05	05	03	09	12	
4	Pulses	Rainfed	Kharif 11	Redgram	TS-3R		Promotion of variety and IDM	TS-3R Vs Gulyal local	05	05	04	08	12	
5		Rainfed	Kharif 11	Greengram	BGS-94		Promotion of variety	BGS-9 Vs China mung	05	05	03	09	12	
6		Rainfed	Rabi 11	Bengalgram	JG-11		Promotion of variety	JG-11 Vs A-1	05	05	04	08	12	
7	Cereals	Rainfed	Rabi 11	Sorghum	CSV-22,		Promotion of variety	CSV-22, Azospirillum and PSB Vs M 35-1	05	05	04	08	12	Vitiated due to moisture stress

8		Irrigated	Rabi 11	Wheat	UAS 304		Promotion of variety	UAS 304 Vs2. DWR 162	05	05	03	09	12	
9		Irrigated	Rabi 11	Wheat	DWR 162		Rust management in wheat	Spraying with Propiconazole @ 1 ml/lit Vs FP	05	05	05	07	12	
10		Irrigated	Kharif 11	Maize		Arjun	Promotion of hybrid	Arjun Vs Farmers practice	05	05	04	08	12	
11	Vegetables	Rainfed	Kharif 09	Onion	Arka Kalyan		Promotion of variety	Arka Kalyan Vs N-53	06	06	02	10	12	
12	Fruit	Irrigated	Kharif 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	05	05	03	17	20	
13		Irrigated	Kharif 11	Lime	Khagzi		IDM	Bacterial canker management	05	05	04	08	12	
14		Irrigated	Rabi 11	Grape	Thompson seedless		IPM	Mealy bug management	4	4	03	07	10	
15	Commercial	Irrigated	Kharif 11-12	Cotton	MRC-7531 Bt.	MRC-7531 Bt.	ICM	MRC-7531 Bt.	20	20	04	16	20	
16	Dairy	-	11-12	Livestock	Crossbred cattle	DH N-6	Fodder development	Introduction of hybrid Napier varieties	10	10	04	06	10	-
17			11-12	Livestock	Crossbred cattle	Azolla	Fodder development	Azolla cultivation and feeding	10	10	02	08	10	-
18			11-12	Livestock	Crossbred cattle	-	Disease management	Ecto-parasites eradication by inj. ivermectin	10	20	05	15	20	-
19	Poultry		11-12	Livestock	Broilers	-	Introduction of variety	Raja 2 broiler chicks	500 chicks	300 chicks	02	04	06	Non availability of chicks

20			11-12	Livestock	Layers	-	Introduci on of variety	Swarnadharabird s 6 wk age	200 bird s	120 bird s	02	04	06	Non avail ity of birds
21	Sheep and goat		11-12	Livestock	Osmanab adi goats	-	Disease managem ent	Regular Deworming and Vaccination	20 goat s	20 goat s	03	07	10	-
22			11-12	Livestock	Osmanab adi goats	-	Poor nutrition	UMMB licks	05 goat s	05 goat s	01	04	05	-
	Duckery													
23	Home science						Drudgery reduction	Hand wheel hoe weeder with tyres	10	10	03	07	10	
24							Drudgery reduction	Cloth gloves	10	10	04	06	10	
25							Drudgery reduction	Groundnut decorticator	10	10	04	06	10	
26							Drudgery reduction	Envirofit chulla	10	10	07	03	10	
27							Drudgery reduction	Lemon harvester	10	10	02	02	10	

**5.A. 1. Soil fertility status of FLDs plots during 2011-12**

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	
	Oilseeds												
	Pulses												
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	270	18	280	Redgram
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	280	20	210	Redgram
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	240	21	295	Sunflower
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	236	17	278	Sunflower
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	248	15	300	Sunflower
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	298	19	310	Bajra
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	266	22	336	Sorghum
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	235	18	293	Sorghum
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	240	15	332	Sorghum
		Ranfed	Kharif -2011	Redgram	TS-3R		Promotion of variety	TS-3R Vs Gulyal local	Kharif -2011	275	21	340	Sorghum
	Fruit												
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	265	21	280	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	240	18	300	

		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	180	15	210	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	150	12	310	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	188	18	285	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	298	19	340	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	245	20	360	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	270	19	345	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	185	14	265	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	196	16	285	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	240	18	310	
		Irrigated	Kharif -	Pomegranate	Ganesh		IDM	Integrated	Kharif -	265	19	325	

			11					management of bacterial blight disease	11				
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	195	22	295	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	175	20	280	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	265	19	340	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	196	21	295	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	210	20	311	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	195	19	285	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	210	18	315	
		Irrigated	Kharif - 11	Pomegranate	Ganesh		IDM	Integrated management of bacterial blight disease	Kharif - 11	270	20	346	

## 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										
<b>Oilseeds</b>																			
Sunflower	Powdery mildew management	-	KBSH-53	Rainfed	10	10	Vitiated due to moisture stress												
Groundnut	TMV-2 with ICM	TMV-2	-	Irrigated	12	5	22.00	16.00	18.50	15.0	23.3	12100	57350	45250	4.7	11500	46500	35000	4.0
Safflower	A-1 with ICM	A-1	-	Rainfed	12	05	8.5	3.5	6.50	5.80	12.0	5800	21450	15650	3.6	5600	19140	13540	3.4
Greengram	Promotion of variety	BGS-9		Rainfed	12	5	3.90	1.00	3.15	2.20	43.18	4800	11025	6225	2.2	4500	7700	3200	1.7
Redgram	Promotion of variety and IDM	TS-3R		Rainfed	12	5	12.2	8.0	7.30	5.8	25.80	12100	24820	12120	2.0	12500	19140	6610	1.5
Bengalgram	Promotion of variety	JG-11		Rainfed	12	5	16.0	10.20	8.75	7.60	15.13	7500	26250	18750	3.5	8000	22800	14800	2.85
Sorghum	Promotion of variety	CSV 22		Rainfed	50	20	Vitiated due to moisture stress												
Wheat	Promotion of variety	UAS 304		Irrigated	10	5	36	27	32.5	26.0	25.0	9500	58500	49000	6.15	9200	46800	37600	5.0
Wheat	Rust management in wheat	DWR-162		Irrigated	10	5	36	26	30	26	15.3	9800	54000	44200	5.5	9400	46800	37400	4.9
Maize	Promotion of variety	-	Arjun	Irrigated	12	05	36	28	30	28	7.14	8000	30000	22000	3.75	8000	28000	20000	3.52
Onion	Promotion of variety and IDM	Arka kalyan		Rainfed	12	05	86	56	66	52	26.9	15200	46200	31000	3.0	16000	36400	20400	2.27
Pomegranate	IDM	Ganesh		Irrigated	12	05	84	52	65	58	12.06	87500	292500	205000	3.34	112156	220400	108244	1.96
Lime	IDM	Kagzhi		Irrigated	12	05	256	170	210	176	19.3	38500	135000	96500	3.50	30000	98500	68500	3.3
Grape	IPM	Thomson seedless		Irrigated	12	05	27.5	18	24.6	20.2	21.8	78640	492000	413360	6.25	81260	404000	322740	4.9
Cotton					20	05	17	10	14.2	11.3	25.6	17650	56800	39150	3.2	17000	45200	28200	2.6

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Percent Disease Index	7.50	26.50
	2.20	20.00
	14.5	20.8

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

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Milk Yield (lt/day) Body weight (Kg/animal) Egg (nos./yr)			Check if any	% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo					Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy	Introduction of hybrid Napier varieties	Crossbred cattle	10	10	12.80	7.20	9.50	6.80	39.70	36410	51300	14580	1.41	27540	36720	9180	1.33
	Azolla cultivation and feeding	Crossbred cattle	10	10	24.5	8.00	14.30	12.70	12.60	54204	77220	23016	1.42	51435	68580	17145	1.33
	Ecto-parasites eradication by inj. ivermectin	Crossbred cattle	20	20	Ticks free	-	-	Tick s present	-	-	-	-	-	-	-	-	-
Poultry	Introduction of Raja 2 colored broiler chicks	Raja 2 Chicks	06	06	2.52	1.95	2.23	2.2	-	3510	7530	4020	2.15	4455	5445	990	1.23
	Introduction of Swarnadhara birds 6 wk age	Swarnadhara birds	06	06	230	126	180	95	90	4188	9720	5532	2.4	855	5130	4275	6.0
Sheep and goat	Regular Deworming and Vaccination	Osmanadadi goats	10	20	No mortality	-	-	10% mortality	-	-	-	-	-	-	-	-	-
	UMMB licks	Osmanadadi goats	05	05	25.0	22.3	24.5	21.5	14.0	1540	4900	3360	3.18	1500	4300	2800	2.86

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

**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./m2)				*Economics of check Rs./unit) or (Rs./m2)					
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A											
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

#### 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./m2)				*Economics of check (Rs./unit) or (Rs./m2)				
					Demo		Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A										
Apiculture																	
Drudgery reduction	Hand wheel hoe weeder with tynes		10			5.95 hr/1/2 acre	8.63 hr/2 acre	31.05									
Drudgery reduction	Cloth gloves for harvesting bengalgram		10			7.08 hr/1/2 acre	9.12 hr/1/2 acre	22.37									
Drudgery reduction	Groundnut decorticator		10			6.82 kg/hr	3.74 kg/hr	82.35									
Drudgery reduction	Envirofit chulla		10			7.04 kg/day	10.28 kg/day	31.52									
Drudgery reduction	Lemon harvester		10			176.9 no./hr	110.4 no./hr	60.24									

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., 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 in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*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		

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

### 5.B.6. Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	08	380	
2	Farmers Training	15	435	
3	Media coverage	28		
4	Training for extension functionaries	04	80	
5	Others (Please specify)			

**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	**	Gross Cost	Gross Return	Net Return	**
					H	L	A										
<b>Cereals</b>																	
Maize	Promotion of hybrid	Arjun	12	05	36	28	30	28	7.14	8000	30000	22000	3.75	8000	28000	20000	3.52
<b>Total</b>			12	05	36	28	30	28	7.14	8000	30000	22000	3.75	8000	28000	20000	3.52
<b>Oilseeds</b>																	
<b>Total</b>																	
<b>Pulses</b>																	
<b>Total</b>																	
<b>Vegetable crops</b>																	
<b>Total</b>																	

H-High L-Low, A-Average \*Please ensure that the name of the hybrid is correct pertaining to the crop specified

## 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
<b>Crop Production</b>										
Resource Conservation Technologies	03	42	12	54	18	02	20	60	14	74
Integrated Farming	02	0	0	00	40	0	40	40	0	40
Micro Irrigation/Irrigation										
Seed production	01	20	0	20	0	0	0	20	0	20
Nursery management										
Integrated Crop Management	22	565	12	577	162	31	193	727	43	770
Soil and Water Conservation										
Integrated Nutrient Management	03	52	8	60	0	0	0	52	8	60
Production of organic inputs	04	58	12	70	10	0	10	68	12	80
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	04	42	12	54	19	05	24	61	17	78
Others (pl.specify)	04	76	12	88	22	06	28	98	18	116
<b>b) Fruits</b>										
Others (pl.specify)										
<b>c) Ornamental Plants</b>										
Others (pl.specify)										
<b>d) Plantation crops</b>										
Others (pl.specify)										
<b>e) Tuber crops</b>										
Others (pl.specify)										
<b>f) Spices</b>										
Others (pl.specify)										
<b>g) Medicinal and Aromatic Plants</b>										
Others (pl.specify)										
<b>Soil Health and Fertility Management</b>										
Others (pl.specify)										
<b>Livestock Production and Management</b>										
Others (pl.specify)										
<b>Home Science</b>										
Kitchen gardening	1	5	4	9				5	4	9

Value addition	7	70	65	135	40	70	110	110	135	245
Women empowerment	8	6	40	46	6	30	36	12	70	92
Location specific drudgery production										
Others (pl.specify) Stress management	1	35	30	65	13	17	30	48	47	95
<b>Agril. Engineering</b>										
Others (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	12	265	13	278	56	08	64	321	21	342
Integrated Disease Management	12	265	13	278	56	08	64	321	21	342
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	06	80	06	86	12	04	16	92	10	102
Others (pl.specify)										
<b>Fisheries</b>										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Bio-agents production	03	25	-	25	-	-	-	25	-	25
Bio-pesticides production	03	25	-	25	-	-	-	25	-	25
Bio-fertilizer production	03	25	-	25	-	-	-	25	-	25
Vermi-compost production	03	25	-	25	-	-	-	25	-	25
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Others (pl.specify)										
<b>Agro-forestry</b>										
Others (Pl. specify)										
<b>TOTAL</b>	<b>102</b>	<b>1681</b>	<b>239</b>	<b>1920</b>	<b>454</b>	<b>181</b>	<b>635</b>	<b>2135</b>	<b>420</b>	<b>2565</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
<b>Crop Production</b>										
Resource Conservation Technologies	02	22	04	26	12	00	12	34	04	38
Integrated Farming	05	62	13	75	14	10	24	76	23	99
Integrated Crop Management	09	210	28	238	74	12	86	284	40	324
Production of organic inputs	02	32	08	40	12	2	14	44	10	54
Others (pl.specify)										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	01	28	04	32	12	04	16	32	20	52
Others (pl.specify)	08	185	24	209	62	23	85	247	47	294
<b>b) Fruits</b>										
Others (pl.specify)										
<b>c) Ornamental Plants</b>										
Others (pl.specify)										
<b>d) Plantation crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
<b>e) Tuber crops</b>										
Others (pl.specify)										
<b>f) Spices</b>										
Others (pl.specify)										
<b>g) Medicinal and Aromatic Plants</b>										
Others (pl.specify)										
<b>Soil Health and Fertility Management</b>										
Others (pl.specify)										
<b>Livestock Production and Management</b>										
Others (pl.specify)										
<b>Home Science/Women empowerment</b>										
Value addition	4	33	77	110	25	45	70	58	122	180
Women empowerment	2	15	31	46	9	23	32	24	54	78
Location specific drudgery reduction	1	4	18	22	4	4	8	8	22	30
Rural Crafts										
Women and child care										
Others (pl.specify)										
<b>Agril. Engineering</b>										
Others (pl.specify)										

<b>Plant Protection</b>										
Integrated Pest Management	09	134	05	139	24	08	32	158	13	171
Integrated Disease Management	09	134	05	139	24	08	32	158	13	171
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	04	182	-	182	-	-	-	182	-	182
Others (pl.specify)										
<b>Fisheries</b>										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Others (Pl. specify)										
<b>TOTAL</b>	<b>56</b>	<b>1041</b>	<b>217</b>	<b>1258</b>	<b>272</b>	<b>139</b>	<b>411</b>	<b>1305</b>	<b>368</b>	<b>1673</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
Nursery Management of Horticulture crops	01	20	0	20	0	0	0	20	0	20
Integrated farming	03	60	0	60	0	0	0	60	0	60
Seed production										
Production of organic inputs	03	42	12	54	12	4	16	54	16	72
Planting material production										
Vermi-culture	03	48	13	61	14	07	21	62	20	82
Mushroom Production										
Bee-keeping	01	28	04	32	0	0	0	0	0	32
Sericulture	02	23	08	31	0	0	0	23	08	31
Dairying	03	45	20	65	35	21	56	80	41	121
Sheep and goat rearing	03	45	30	75	13	10	23	58	40	98
Quail farming										
Poultry production	02	25	05	30	10	06	16	35	11	46
Any other (pl.specify)										
<b>TOTAL</b>	<b>21</b>	<b>336</b>	<b>92</b>	<b>428</b>	<b>84</b>	<b>48</b>	<b>132</b>	<b>392</b>	<b>136</b>	<b>562</b>

**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										
Any other (pl.specify)										
<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	03	42	0	42	0	0	0	42	0	42
Integrated Pest Management	03	58	0	58	0	0	0	58	0	58
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</b>	<b>6</b>	<b>100</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>100</b>

**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	03	60	08	68	0	0	0	60	68	68
Integrated Pest Management	04	58	06	64	0	0	0	58	06	64
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</b>	<b>7</b>	<b>118</b>	<b>14</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>74</b>	<b>132</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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	12	480	05	485	0	0	0	480	05	485
1.b.	Commercial production of vegetables	01	25	0	25	3	0	3	28	0	28
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
<b>3.</b>	<b>Soil health and fertility management</b>	05	100	0	100	0	0	0	100	0	100
<b>4</b>	<b>Production of Inputs at site</b>	65	100	-	100	20	-	20	120	-	120
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>	01	25	0	25	0	0	0	25	0	25
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
<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 (pl.specify)										
<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 (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	<b>Total</b>	84	730	5	735	23	0	23	753	5	758

### Details of sponsoring agencies involved

- 1.KSDA
- 2.KSDH
- 3.ATMA

**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
<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 (pl.specify)										
<b>2</b>	<b>Post harvest technology and value addition</b>										
2.a.	Value addition										
2.b.	Others (pl.specify)										
<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 (pl.specify)										
<b>4.</b>	<b>Income generation activities</b>										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	04	83	27	110	18	05	23	101	32	133
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production	01	20	0	20	0	0	0	20	0	20
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	3	-	37	37	-	18	18	-	55	55
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	<b>Grand Total</b>	<b>8</b>	<b>103</b>	<b>64</b>	<b>167</b>	<b>18</b>	<b>23</b>	<b>41</b>	<b>121</b>	<b>87</b>	<b>208</b>

## PART VIII – EXTENSION ACTIVITIES

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	837	0	837	0	0	0	27	07	34
Kisan Mela	04	10800	1500	12300	0	0	0	37	15	52
Kisan Ghosthi										
Exhibition	04	1020000	48000	1068000						
Film Show	4	100	50	150						
Method Demonstrations	06	138		138				06	02	08
Farmers Seminar	01	40		40				05		05
Workshop	02	25	0	25						
Group meetings	22	563	67	630				08	02	10
Lectures delivered as resource persons	37	435	39	474				0	00	0
Newspaper coverage	42									
Radio talks	08	25	-	25	5	-	5			
TV talks	06									
Popular articles										
Extension Literature	19									
Advisory Services	521									
Scientific visit to farmers field	18									
Farmers visit to KVK	286									
Diagnostic visits	08									
Exposure visits	06									
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	03	140	20	160	25	10	35	05	02	07
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	01									
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	02	122	0	122	0	0	0	122		122
Any Other (Specify)										
<b>Total</b>	<b>1010</b>	<b>1033225</b>	<b>49676</b>	<b>1082901</b>	<b>30</b>	<b>10</b>	<b>40</b>	<b>210</b>	<b>28</b>	<b>238</b>

## **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 to whom provided</b>
Cereals	Jowar	M 35-1		42.0	231000	350
Oilseeds						
Pulses	Greengram	BGS-9		8.0	60000	66
	Greengram	S-4		0.90	6750	8
	Redgram	TS-3R		15.0	120000	150
	Bengalgram	JG-11		18.0	90000	36
Others						
<b>Total</b>				<b>83.9</b>	<b>507750</b>	<b>610</b>

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

<b>Crop category</b>	<b>Name of the crop</b>	<b>Variety</b>	<b>Hybrid</b>	<b>Number</b>	<b>Value (Rs.)</b>	<b>Number of farmers to whom provided</b>
Commercial						
Vegetable seedlings						
Fruits	Lemon	Kagji		4000		
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
<b>Total</b>				<b>4000</b>		

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

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
<b>Total</b>				

### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
<b>Poultry</b>				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
<b>Piggery</b>				
Piglet				
Others (Pl. specify)				
<b>Fisheries</b>				
Fingerlings				
Others (Pl. specify)				
<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 ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

<b>Item</b>	<b>Title</b>	<b>Authors name</b>	<b>Number</b>
Research papers	Efficacy of Metaloxyl M + Mancozeb (4+64) WP against Citrus canker	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Mannikeri I.M., 2011	01
	Eco-friendly management of dry rootrot in lime	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Mannikeri I.M., 2011	01
	Harnessing the benefits of 10 M technology in lime canker management	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Mannikeri I.M., 2011	01
	Occurrence of black flies on citrus	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011	01
	Survey and surveillance of citrus (acid lime) pest and diseases in Bijapur district	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011	01
	Impact of wide row sowing on incidence of powdery mildew in Sunflower	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011	01
	Eco-friendly management of major soil and seed borne diseases of sorghum with main emphasis to charcoal rot	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011	01
	Performance of new redgram variety (TS-3R) to the pest and disease in Bijapur district	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011	01
Technical reports			
News letters			
Technical bulletins	Dairy farming	Suresh B.N., V.S.Kulkarni., S.S.Nooli & S.Y.Wali.	100
	Goat farming	Suresh B.N., V.S.Kulkarni., S.S.Nooli & S.Y.Wali.	100
	Backyard poultry farming	Suresh B.N., V.S.Kulkarni., & S.Y.Wali.	100
	Fodder crops	Suresh B.N., S.S.Nooli & S.Y.Wali.	100
Popular articles			
Extension literature	Lime pest and disease management	SMV & SSK	1000
	Sapota production technology	IMM,SMV & SSK	1000
	Drumstick production technology	IMM,SMV & SSK	1000

	Bhendi disease management	SMV, SSK	1000
	Mango disease management	SMV, SSK	1000
	Brinjal disease management	SMV, SSK	1000
	Lime production technology	A.N.Bagali & SSK	1000
	Onion production technology	SMV,SSK & SYW	1000
	Lime production technology	IMM,SMV &SSK	1000
	ICM in redgram	SMV,SSK&SYW	1000
	Crop management in redgram	SMV,SSK&SYW	1000
	Plant protection in Bt.Cotton	SMV,SSK& SYW	1000
	Pest and disease management in Pomegranate	SMV&SSK	1000
	Vermicompost preparation	SSK	1000
	Value addition to pearl millets	PBP& SCK	1000
<b>TOTAL</b>	<b>27</b>		<b>15408</b>

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

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

**10.C. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).**

The Broad outline for the case study may be

Title

Background

Interventions

Process

Technology

Impact

Horizontal Spread

Economic gains

Employment Generation

**10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year****10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)**

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

**10.F. Indicate the specific training need analysis tools/methodology followed for**

- Identification of courses for farmers/farm women
- Rural Youth - Inservice personnel

**10.G. Field activities**

- i. Number of villages adopted : 12
- ii. No. of farm families selected : 53
- iii. No. of survey/PRA conducted : 04

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

Status of establishment of Lab : Established

1. Year of establishment : 01-09-2005

2. List of equipments purchased with amount :

Sl. No.	Name of the Equipment	Qty	Cost (Rs)
1.	Ph. Meter	01	8,900.00
2.	Electrical conductivity Bridge	01	9,790.00
3.	Flame Photometer	01	32,040.00
4.	Visible spectro photo meter	01	40,050.00
5.	Electronic automatic KEL Plus digestion system and Nitrogen distillation system	01	1,42,844.00
6.	Shaking machine	01	47,025.00
7.	Electronic weighing machine	01	57,000.00
8.	Physical balance	01	10,890.00
9.	Hot air oven	01	16,471.00
10.	Hot plate	01	2,912.00
11	Grinder	01	14,700.00
12.	Water distillation unit	01	62,444.00
13.	Refrigerator	01	12,285.00
	<b>Accessories</b>		
1.	Electronic acid neutralizer scrubber for KEL plus digestion and distillation unit	01	42,185.00
2.	Combined electrode for pH meter	01	23,451.00
	Conductivity cell type for conductivity meter	01	
	Glass cuvettes, plastic cuvettes and tungston haloen lamp for spectro photo meter	01	
	Software and interfacing accessories for spectro photo meter	01	
	Calcium filter for flame photo meter	01	
3.	Water softner for water distillation unit	01	16,932.00
	Silica heaters for water distillation unit	01	
	<b>TOTAL(A)</b>		5,39,919.00
B.	Laboratory furnitures purchased (Lab tables, Steel cabinet, Lab stools, Lab racks)		3,19,749.00
	<b>TOTAL (A+B)</b>		8,59,668.00
	<b>Un spent balance</b>		332.00

**Details of samples analyzed so far since establishment of SWTL:**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1160	1023	181	196400
Water Samples	235	224	71	23500
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
<b>Total</b>				<b>219900</b>

**Details of samples analyzed during the 2011-12 :**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	383	360	163	76600
Water Samples	113	100	100	11300
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
<b>Total</b>	<b>496</b>	<b>460</b>	<b>263</b>	<b>87,900</b>

**10.I. Technology Week celebration during 2011-12 Yes, If Yes**

Period of observing Technology Week: From 26-12-2011 to 31-12-2011

Total number of farmers visited : 9650

Total number of agencies involved : 80

Number of demonstrations visited by the farmers within KVK campus : 9650

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized	02 days	5600	1. Sustainable agriculture 2. Farm machinery for labour problem
Exhibition	02 days	8000	Bio-pesticides, live stock, Agrochemicals, Machinery etc
Film show			
Fair			
Farm Visit	2 days	7600	Sorghum, redgram, bengalgram varieties, dry land technology
Diagnostic Practicals			
Supply of Literature (No.)	2000	2000	Bengal gram , vermicompost,
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week	02 days	9650	Trichodruma , Rhzobium , PSB, Vermicompost.

## 10. J. Interventions on drought mitigation (if the KVK included in this special programme)

### 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		
Cereals		
Vegetable crops		
Tuber crops		
<b>Total</b>		

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

State	Livestock components	Number of interactions	No.of participants
<b>Total</b>			

### D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Karnataka (Atalatti,Nidoni & Savalsang)	03	760	202
<b>Total</b>			

### E. Seed distribution in drought hit states

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

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

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
<b>Total</b>												

## PART XI. IMPACT

### 11.A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

### 11.B. Cases of large scale adoption (Please furnish detailed information for each case)

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

## PART XII - LINKAGES

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

Name of organization	Nature of linkage
Department of Agriculture	Joint diagnostic surveys, Trainings, FLD
Dept. of Horticulture	Joint diagnostic surveys, Trainings
Dept of Veterinary and Animal Husbandry	Conducting training
Karnataka Milk Federation	Conducting training programmes
Rural Development and Self- Employment Training Institute (RUDSET) Bijapur	Conducting training programmes
Non Government Organizations (NGO's) such as RUDSET, NYK, etc	Conducting trainings
VVV Clubs	Conducting trainings
Self help Groups	Conducting trainings
Regional Agricultural Research Station	Conducting trainings, demonstrations visits to problematic fields
Agromet Advisory service unit	Tips on Weather forecasting
Department of child and women welfare	Conducting trainings
KVIC	Conducting training programme

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Training on organic farming	June 2011 to Mar-2012	KSDH	3,00,000
IFS project for SC/ST Farmers	April 2011	Dept. of Social Welfare, GOK.	3,00,00,000

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

a) Is ATMA implemented in your district : Yes

If yes, role of KVK in preparation of SREP of the district: KVK scientist involved in preparation of SREP of Bijapur district

**Coordination activities between KVK and ATMA during 2011-12**

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings		04	01	
02	Research projects			01	
03	Training programmes	05	0	05	
04	Demonstrations	02	02	02	
05	Extension Programmes				
	Kisan Mela	01	01	01	
	Technology Week	01	01	01	
	Exposure visit	01	01	01	
	Exhibition				
	Soil health camps	0	0	0	
	Animal Health Campaigns				
	Others FFS	02	02	02	
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1	Plant Health Clinic	Financial assistance received for infrastructural development	200000	150000	
2	Pest and Disease forecasting centre	Financial assistance received for infrastructural development	400000	395000	
3	Advanced Research on Bacterial blight on pomegranate	Financial assistance	4500000	400000	

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

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

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
01	E-pest surveillance	Technical and Financial assistance for developing data on pest incidence	1,00,000	53,000	

#### 12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2011	03	1500	25
May	08	4000	130
June	13	6200	120
July	11	5500	50
August	05	2500	50
September	-	-	-
October	-	-	-
November	-	-	-
December	03	1500	25
January 2012	02	1000	25
February	04	2000	40
March	03	1500	20

## 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.	Cost of inputs	Gross income	

### 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>									
Sorghum	7-10-11	25.2.2012	5.2	M-35-1	Seed	42.0	26000	2,31,000	
<b>Pulses</b>									
Greengram	8.6.11	19.8.11	1.2	BGS-9	Seed	8.0	12000	60000	
Greengram	8.6.11	19.8.11	0.4	S-4	Seed	0.9	4000	6750	
Bengalgram	8.10.11	3.2.12	2.4	JG-11	Seed	18.0	16000	90000	
Redgram	15.7.11	30.12.12	2.0	TS-3R	Seed	15.0	25100	120000	
<b>Oilseeds</b>									
<b>Fibers</b>									
<b>Spices &amp; Plantation crops</b>									
<b>Floriculture</b>									
<b>Fruits</b>									
Sapota									
<b>Vegetables</b>									
<b>Others (specify)</b>									

### 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	

### 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	

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

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008			
November 2008			
December 2008			
January 2009			
February 2009			
March 2009			
April 2009			
May 2009			
June 2009			
July 2009			
August 2009			
September 2009			

### 13.F. Database management

S. No	Database target	Database created
01	KVK Database	KVK Data base is under progress
02	KVK website	Web site is running

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

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.)		
10,00000	860762	Farm pond	12	Nil	Lime 10000	12000	150	-	

## PART XIV - FINANCIAL PERFORMANCE

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

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Dharwad		Comptroller, UAS, Dharwad			
With KVK	State Bank of India, Bijapur	Bijapur	819	Programme Coordinator, KVK, Bijapur	31010226801 10465780871		

### 14.B. Utilization of KVK funds during the year 2011-12 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	48,00,000		4800000
2	<b>Traveling allowances</b>	1,30,000		130000
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1,90,000		190000
B	POL, repair of vehicles, tractor and equipments	1,35,000		135779
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	90,000		89485
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	40,000		39826
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	3,00,000		295657
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	40,000		35368
G	Training of extension functionaries	15,000		14149
H	Maintenance of buildings	-		-
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Extension Activities	10,000		7604
K	Farmers Field school	25,000		24465
L	Library	5000		4810
<b>TOTAL (A)</b>		<b>57,80,000</b>		<b>5767143</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>			
2	<b>Equipments including SWTL &amp; Furniture</b>			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)			
<b>TOTAL (B)</b>				
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>57,80,000</b>		<b>57,67,143</b>

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2009 to March 2010	136259=34	177356	104471	209144=34
April 2010 to March 2011	209144=34	205206	180120	234230=34
April 2011 to March 2012	234230=34	351507	320907	264830.34

**15. D Details of HRD activities attended by KVK staff during 2011-12**

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
S.M.Vastad	SMS (PI Path)	Diseases caused by nematodes and their management	IARI, New Delhi	24-11-2011 to 2-12-12
S.S.Nooli	SMS(Agronomy)	Operationalization of krishi community radio station for voice of voiceless	Directorate of Extension , UAS,Dharwad	22-2-2012 to 29-2-2012
Suresh B.N	SMS(Animal science)	Methane estimation and mitigation strategies in ruminants	NIANP, Bangalore	5-08-2011 to 18-08-2011
Prema Patil	SMS(Home science)	Training methods for Trainees	MANAGE, Hyderabad	09.1.2012 to 13.1.2012

**16. Please include any other important and relevant information which has not been reflected above (write in detail).**

# SUMMARY FOR 2011-12

## I. TECHNOLOGY ASSESSMENT

### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management			
Varietal Evaluation	Sorghum	Promotion of early maturing variety Anuradha	05
Integrated Pest Management	Brinjal	Management of shoot and fruit borer in Brinjal	05
	Onion	Thrips management in onion	05
Integrated Crop Management	Onion	Ridge planting in onion with drip irrigation	05
Integrated Disease Management	Pomegranate	Scab management in pomegranate	05
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>25</b>

### Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Dairy	1)Area specific mineral mixture 2) Bypass fat feeding	10 10
Production and Management			
Others (Pl. specify)			
<b>Total</b>			<b>20</b>

**Summary of technologies assessed under various enterprises**

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

**Summary of technologies assessed under home science**

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

## II. TECHNOLOGY REFINEMENT

### Summary of technologies refined under various crops

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology	Grape	Garlic extract for bud break in grape	05
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
<b>Total</b>			<b>05</b>

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

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

**Summary of technologies refined under various enterprises**

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

**Summary of technologies refined under home science**

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

### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Thematic area	Name of the technology 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	
Cereals																			
Sorghum	Promotion of variety	CSV 22		50	20	Vitiated due to moisture stress													
Wheat	Promotion of variety	UAS 304		10	5	32.5	26.0	25.0			9500	58500	49000	6.15	9200	46800	37600	5.0	
Wheat	Rust management in wheat	Spraying with propiconazole @ 1ml/l		10	5	30	26.0	15.4			9800	54000	44200	5.5	9400	46800	37400	4.9	
Maize	Promotion of variety	Arjun		12	5	30	28	7.14			8000	30000	22000	3.75	8000	28000	20000	3.52	
Millets																			
Oilseeds																			
Sunflower	Powdery mildew management	KBSH-53		10	10	Vitiated due to moisture stress													
Groundnut	TMV-2 with ICM	ICM		12	5	18.50	15.0	23.3			12100	57350	45250	4.7	11500	46500	35000	4.0	
Safflower	A-1 with ICM	ICM		12	5	6.50	5.80	12.0			5800	21450	15650	3.6	5600	19140	13540	3.4	
Pulses																			
Greengram	Promotion of variety	BGS-9		12	5	3.15	2.20	43.18			4800	11025	6225	2.2	4500	7700	3200	1.7	
Redgram	Promotion of variety and IDM	TS-3R		12	5	7.30	5.8	25.80			12100	24820	12120	2.0	12500	19140	6610	1.5	
Bengalgram	Promotion of variety	JG-11		12	5	8.75	7.60	15.13			7500	26250	18750	3.5	8000	22800	14800	2.85	
<b>Vegetables</b>																			
Onion	Promotion of variety and IDM	Arka kalyan		12	05	66	52	26.9			15200	46200	31000	3.0	16000	36400	20400	2.27	
<b>Flowers</b>																			

<b>Ornamental</b>																		
<b>Fruit</b>																		
Pomegranate	IDM	Ganesh		12	05	65	58	12.06			87500	292500	205000	3.34	112156	220400	108244	1.96
Lime	IDM	Kagzhi		12	05	210	176	19.3			38500	135000	96500	3.50	30000	98500	68500	3.3
Grape	IPM	Thomson seedless		12	05	24.6	20.2	21.8			78640	492000	413360	6.25	81260	404000	322740	4.9
<b>Fibres like Cotton</b>																		
<b>Spices and condiments</b>																		
<b>Commercial</b>																		
Bt Cotton	ICM	Bt.Cotton		20	05	14.2	11.3	25.6			17650	56800	39150	3.2	17000	45200	28200	2.6
<b>Medicinal and aromatic</b>																		
<b>Fodder</b>																		
<b>Plantation</b>																		
<b>Fibre</b>																		
<b>Others (pl.specify)</b>																		
		<b>Total</b>		<b>220</b>	<b>95</b>													

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

\*\* BCR= GROSS RETURN/GROSS COST



**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																		
Others (pl.specify)																		
		<b>Total</b>																

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

\*\* BCR= GROSS RETURN/GROSS COST



**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 ect.)					
						Demonstration	Check											

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

\*\* BCR= GROSS RETURN/GROSS COST

**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
<b>Cereals</b>										
Bajra										
Maize	Arjun	10	05	30	28	7.14	8000	30000	22000	3.75
Rice										
Sorghum										
Wheat										
Others (pl.specify)										
<b>Total</b>										
<b>Oilseeds</b>										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
<b>Total</b>										
<b>Pulses</b>										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										

<b>Total</b>										
<b>Vegetable crops</b>										
Bottle gourd										
Capsicum										
Others (pl.specify)										
<b>Total</b>										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
<b>Total</b>										
<b>Commercial crops</b>										
Sugarcane										
Coconut										
Others (pl.specify)										
<b>Total</b>										
<b>Fodder crops</b>										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
<b>Total</b>		10	05	30	28	7.14	8000	30000	22000	3.75

## IV. Training Programme

### Training for 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
<b>Crop Production</b>										
Weed Management										
Resource Conservation Technologies	03	42	12	54	18	02	20	60	14	74
Cropping Systems										
Crop Diversification										
Integrated Farming	02	0	0	00	40	0	40	40	0	40
Micro Irrigation/Irrigation										
Seed production	01	20	0	20	0	0	0	20	0	20
Nursery management										
Integrated Crop Management	22	565	12	577	162	31	193	727	43	770
Soil and Water Conservation										
Integrated Nutrient Management	03	52	8	60	0	0	0	52	8	60
Production of organic inputs	04	58	12	70	10	0	10	68	12	80
Others (pl.specify)										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	04	42	12	54	19	05	24	61	17	78
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)	04	76	12	88	22	06	28	98	18	116
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										

Others (pl.specify)																				
<b>c) Ornamental Plants</b>																				
Nursery Management																				
Management of potted plants																				
Export potential of ornamental plants																				
Propagation techniques of Ornamental Plants																				
Others (pl.specify)																				
<b>d) Plantation crops</b>																				
Production and Management technology																				
Processing and value addition																				
Others (pl.specify)																				
<b>e) Tuber crops</b>																				
Production and Management technology																				
Processing and value addition																				
Others (pl.specify)																				
<b>f) Spices</b>																				
Production and Management technology																				
Processing and value addition																				
Others (pl.specify)																				
<b>g) Medicinal and Aromatic Plants</b>																				
Nursery management																				
Production and management technology																				
Post harvest technology and value addition																				
Others (pl.specify)																				
<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 (pl.specify)																				
<b>Livestock Production and</b>																				

<b>Management</b>										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	1	5	4	9				5	4	9
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	7	70	65	135	40	70	110	110	135	245
Women empowerment	8	6	40	46	6	30	36	12	70	92
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)	1	35	30	65	13	17	30	48	47	95
<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 (pl.specify)										

<b>Plant Protection</b>										
Integrated Pest Management	12	265	13	278	56	08	64	321	21	342
Integrated Disease Management	12	265	13	278	56	08	64	321	21	342
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	06	80	06	86	12	04	16	92	10	102
Others (pl.specify)										
<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 (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production	03	25	-	25	-	-	-	25	-	25
Bio-pesticides production	03	25	-	25	-	-	-	25	-	25
Bio-fertilizer production	03	25	-	25	-	-	-	25	-	25
Vermi-compost production	03	25	-	25	-	-	-	25	-	25
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										

<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 (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	102	1681	239	1920	454	181	635	2135	420	2565

**Training for 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
<b>Crop Production</b>										
Weed Management										
Resource Conservation Technologies	02	22	04	26	12	00	12	34	04	38
Cropping Systems										
Crop Diversification										
Integrated Farming	05	62	13	75	14	10	24	76	23	99
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	09	210	28	238	74	12	86	284	40	324
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs	02	32	08	40	12	2	14	44	10	54
Others (pl.specify)										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop	01	28	04	32	12	04	16	32	20	52
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)	08	185	24	209	62	23	85	247	47	294
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										



Others (pl.specify)										
<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	4	33	77	110	25	45	70	58	122	180
Women empowerment	2	15	31	46	9	23	32	24	54	78
Location specific drudgery production	1	4	18	22	4	4	8	8	22	30
Rural Crafts										
Women and child care										
Others (pl.specify)										
<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 (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	09	134	05	139	24	08	32	158	13	171
Integrated Disease Management	09	134	05	139	24	08	32	158	13	171
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	04	182	-	182	-	-	-	182	-	182
Others (pl.specify)										
<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 (pl.specify)										
<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										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
<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 (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>56</b>	<b>1041</b>	<b>217</b>	<b>1258</b>	<b>272</b>	<b>139</b>	<b>411</b>	<b>1305</b>	<b>368</b>	<b>1673</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
Nursery Management of Horticulture crops	01	20	0	20	0	0	0	20	0	20
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	03	60	0	60	0	0	0	60	0	60
Seed production										
Production of organic inputs	03	42	12	54	12	4	16	54	18	72
Planting material production										
Vermi-culture	03	48	13	61	14	07	21	62	21	
Mushroom Production										
Bee-keeping	01	28	04	32	0	0	0	0	0	32
Sericulture	02	23	08	31	0	0	0	23	08	31
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	03	45	20	65	35	21	56	80	41	121
Sheep and goat rearing	03									98
Quail farming										
Piggery										
Rabbit farming										
Poultry production	02									46
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
<b>TOTAL</b>	<b>21</b>	<b>266</b>	<b>57</b>	<b>323</b>	<b>61</b>	<b>32</b>	<b>93</b>	<b>299</b>	<b>88</b>	<b>480</b>

**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										
Any other (pl.specify)										
<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	03	42	0	42	0	0	0	42	0	42
Integrated Pest Management	03	58	0	58	0	0	0	58	0	58
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</b>	6	100	0	100	0	0	0	100	0	100

**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	03	60	08	68	0	0	0	60	68	68
Integrated Pest Management	04	58	06	64	0	0	0	58	06	64
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</b>	<b>7</b>	<b>118</b>	<b>14</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>74</b>	<b>132</b>

## Sponsored training programmes

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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	12	480	05	485	0	0	0	480	05	485
1.b.	Commercial production of vegetables	01	25	0	25	3	0	3	28	0	28
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
<b>3.</b>	<b>Soil health and fertility management</b>	05	100	0	100	0	0	0	100	0	100
<b>4</b>	<b>Production of Inputs at site</b>	65	100	-	100	20	-	20	120	-	120
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>	01	25	0	25	0	0	0	25	0	25
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
<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 (pl.specify)										
<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 (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	<b>Total</b>	84	730	5	735	23	0	23	753	5	758

**Details of Vocational Training Programmes carried out 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
<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 (pl.specify)										
<b>2</b>	<b>Post harvest technology and value addition</b>										
2.a.	Value addition										
2.b.	Others (pl.specify)										
<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 (pl.specify)										
<b>4.</b>	<b>Income generation activities</b>										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	04	83	27	110	18	05	23	101	32	133
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production	01	20	0	20	0	0	0	20	0	20
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	3	-	37	37	-	18	18	-	55	55
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	<b>Grand Total</b>	<b>8</b>	<b>103</b>	<b>64</b>	<b>167</b>	<b>18</b>	<b>23</b>	<b>41</b>	<b>121</b>	<b>87</b>	<b>208</b>

## V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	521	521	112	1154
Diagnostic visits	08	24	08	40
Field Day	10	837	34	881
Group discussions				0
Kisan Ghosthi				0
Film Show	4	100	50	150
Self -help groups	01			1
Kisan Mela	04	12300	52	12356
Exhibition	04	1068000	0	1068004
Scientists' visit to farmers field	18			18
Plant/animal health camps				0
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop				0
Method Demonstrations	06	138	08	152
Celebration of important days	02	122	0	124
Special day celebration				0
Exposure visits	06			6
Others (pl.specify)				1154
<b>Total</b>	<b>584</b>	<b>1082042</b>	<b>264</b>	<b>1082886</b>

### Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	18
News Letter	
News paper coverage	42
Technical Articles	12
Technical Bulletins	04
Technical Reports	
Radio Talks	08
TV Talks	06
Animal health amps (Number of animals treated)	
Others (pl.specify)	
<b>Total</b>	<b>90</b>

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

### Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Jowar	M 35-1	42.0	231000	350
Oilseeds					
Pulses	Greengram	BGS-9	8.0	60000	66
	Greengram	S-4	0.90	6750	8
	Redgram	TS-3R	15.0	120000	150
	Bengalgram	JG-11	18.0	90000	36
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
<b>Total</b>			<b>83.9</b>	<b>507750</b>	<b>610</b>

### Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial					
Vegetable seedlings					
Fruits	Lime	-	4000		
Ornamental plants					
Medicinal and Aromatic					
Plantation					
Spices					
Tuber					
Fodder crop saplings					
Forest Species					
Others					
<b>Total</b>			<b>4000</b>		

### Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
<b>Total</b>				

### Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
<b>Poultry</b>				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
<b>Piggery</b>				
Piglet				
Others (Pl. specify)				
<b>Fisheries</b>				
Fingerlings				
Others (Pl. specify)				
<b>Total</b>				

### VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2011-12

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	383	360	163	76600
Water	113	100	100	11300
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
<b>Total</b>	<b>496</b>	<b>460</b>	<b>263</b>	<b>87,900</b>

### VIII. SCIENTIFIC ADVISORY COMMITTEE

<b>Number of SACs conducted : 01</b>

### IX. NEWSLETTER

<b>Number of issues of newsletter published : 01</b>

## X. RESEARCH PAPER PUBLISHED

<b>Number of research paper published :</b>	
1.	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Mannikeri I.M., 2011. Efficacy of Metaloxyl M + Mancozeb (4_64) wp against Citrus canker Paper presented in National Seminar on Recent trends in production technology and value addition in acid lime organized by UHS, Bagalkot at College of Agriculture, Bijapur from 11-13 August, 2011, page: 117.
2.	Eco-friendly management of dry root rot in lime, page: 117.
3.	Harnessing the benefits of 10 M technology in lime canker management, page: 119.
4.	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011. Occurrence of black flies on citrus, page: 114.
5.	Karabhantanal S.S., Vastrad S.M. and Wali S.Y., 2011. Survey and surveillance of citrus (acid lime) pest and diseases in Bijapur district, paper presented during National Symposium on Integrated Disease Management strategies in relation to climate change in South India, 14-15 October, 2011, page No.: pp 21.
6.	Impact of wide row sowing on incidence of powdery mildew in Sunflower op-18-A.
7.	Eco-friendly management of major soil and seed borne diseases of sorghum with main emphasis to charcoal rot pp-54-A.
8.	Performance of new redgram variety (TS-3R) to the pest and disease in Bijapur district op-42.

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

<b>Activities conducted</b>				
<b>No. of Training programmes</b>	<b>No. of Demonstration s</b>	<b>No. of plant materials produced</b>	<b>Visit by farmers (No.)</b>	<b>Visit by officials (No.)</b>
12	Nill	Lime seedling - 10000	12000	150

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