

# **ANNUAL REPORT 2011-12**

**(APRIL 2011 TO MARCH 2012)**

**KRISHI VIGYAN KENDRA (HAVERI)**

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## PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra Hanumanamatti-581115 Tq: Ranebennur , Dist: Haveri	08373- 253524	08373- 253524	kvk_haveri@rediffmail.com	www.kvkhaveri.org

### 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 Krishinagar, Dharwad-580005	0836- 2447783	0836- 2745276	vc_uasd@rediffmail.com	www.uasd.edu

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Mr. D.S.Mallikarjunappa Gouda	-	09448495338	dsmgouda@gmail.com

### 1.4. Year of sanction: 1977

### 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	Pay Scale	Basic pay	Date of Joining KVK	Permanent	Category
1	Programme Coordinator	D.S. M. Gouda	PC	M	Ag.Engg	M.Sc. (Ag.Engg.)	37400-61000	50720	09.06.11	Permanent	Others
2	SMS	S. A. Astaputre	SMS	M	Plant Pathology	Ph.D	37400-61000	49240	11.06.11	Permanent	Others
3	SMS	S.Y. Mukartal	SMS	M	Animal Science	M.V.Sc.	15600-39100	23610	06.07.09	Permanent	Others
4	SMS	T.M. Soumya	SMS	F	Agronomy	Ph.D	15600-39100	25060	05.12.08	Permanent	Others
5	SMS	Geeta S. Tamgale	SMS	F	Home Science	M.H.Sc.	15600-39100	22920	01.07.09	Permanent	OBC
6	SMS	G. R. Rajakumar	SMS	M	Soil Science	Ph.D	15600-39100	24330	12.07.11	Permanent	Others
7	SMS	-	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Mallikarjun A. Gaddanakeri.	Prog. Asst.	M	Soil Science	M.Sc.	9300-34800	14760	26.02.09	Permanent	OBC
9	Prog.Asst Computer	Rekha K.N.	Prog. Asst.	F	Computer science	M.Sc.	9300-34800	14760	12.11.08	Permanent	OBC
10	Farm Manager	Sairabanu M	Prog. Asst.	F	Farm Manager	B.Sc.	9300-34800	14330	02.07.09	Permanent	OBC
11	Assistant	-	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer	Saroja B Talawar	Typist	F	Typist	-	8000-14800	8400	06.11.09	Permanent	ST
13	Driver	Mahesh L.M.	Driver	M	Driver	-	5800-10500	6345	12.07.06	Permanent	Others
14	Driver	P.C. Kunbevin	Driver	M	Driver	-	5800-10500	10250	07.06.98	Permanent	OBC
15	Supporting staff	C. V. Nelogal	Supporting staff	M	Supporting staff	-	5200-8200	7100	02.11.98	Permanent	Others
16	Supporting staff	K. B. Belakeri	Supporting staff	M	Supporting staff	-	5200-8200	7100	01.07.02	Permanent	OBC

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

S. No.	Item	Area (ha)
1	Under Buildings	2.20
2.	Under Demonstration Units	0.0
3.	Under Crops	16.20
4.	Orchard/Agro-forestry	1.60
5.	Others	-

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

S. No.	Name of building	Source of funding	Stage		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)
1.	Administrative Building	ICAR	1999	400	27.93
2.	Farmers Hostel	ICAR	2004	305	22.63
3.	Staff Quarters	ICAR	2007	399	39.68
4	Rain Water harvesting system	ICAR	31.01.2008	985.96	9.11

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tempo trax Judo	2002	4.50	2,39,400	Major repair
Motor cycle Bajaj CT-100	2005	0.40	24555	Good
Tractor and Trailer New Holland Ford 3230	2005	5.00	3254.0 hr	Good
Motor cycle Bajaj CT-100	2006	0.40	19100	Good

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Spectrophotometer	31.03.2005	40,050	Good
Flame photometer	31.03.2005	32,040	Good
pH meter	31.03.2005	8,900 (850)	Good
Conductivity bridge	31.03.2005	9,790(1000)	Good
Physical balance	31.03.2005	10,890	Good
Chemical balance	31.03.2005	57,000	Good
Water distillation still	31.03.2005	62,444	Good
Kjeldahl digestion and distillation (2 sets)	31.03.2005	1,42,844	Good
Shaker	31.03.2005	47,025	Good
Refrigerator	31.03.2005	12,285	Good
Oven	31.03.2005	17,228	Good
Hot plate	31.03.2005	3,046	Good
Grinder	31.03.2005	15,635	Good
Fax machine	18.03.2004	24,900	Good
Xerox machine	30.11.2004	52,000	Good
HP Computer with accessories	11.11.2006	39,216	Good
Multi media projector (LCD)	16.12.2006	58,488	Good
Power weeder	31.03.2008	36,220	Good
Mist blower	31.03.2008	35,110	Good
Toshiba E-Studio Xerox	3.06.2008	55,120	Good
Laser printer	20.08.2008	15,043	Good
LCD Motorized screen	20.08.2008	27,000	Good
Toshiba E-Studio Xerox	24.12.2008	55,120	Good
Computer with accessories	29.01.09	300000	Good
HP printer			
Scanner			
Server with accessories			

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

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	29.07.2011	24	05	Conduct of FLD on use of boron in sunflower	Implemented FLD on use of Boron in sunflower at Marola village of Haveri taluk during 2011-12 & conducted field day
				Popularization of GPBD-5 variety along with GPBD-4	Proposed during 2012-13
				Popularization of soybean variety JS-9305 along with JS-335	Proposed during 2012-13
				Popularization of red gram TS-3R along with BSMR-736, similarly Bengal gram BJD-103, sesamum DSS-9 and black gram DU-1	Proposed during 2012-13
				Farm officer, Zonal Office Bangalore suggested to increase trainings on value addition in soybean and minor millets to SHG groups in Haveri district	Four Trainings were conducted to the interested SHG members
				Establishment of fodder banks in rural areas and KVK field	Established the fodder bank consisting of 8 types of grasses in an area of 01 acre at the instructional farm. Establishment in the rural areas will be taken up in 2012-13
				Senior Assistant Director of Fisheries suggested to conduct on campus training on fisheries cultivation	It is planned and communicated with the concerned scientist to take up the activity in 2012-13
				Popularization of mechanized transplanting in paddy	Initiated the demonstration on mechanized paddy transplanting at Malagund village of Hangal taluk in an area of 01 acre during summer 2011-12
				Regularization of KVK news letter	Regularized till December 2011
				Conduct of demonstration on aerobic rice in the SAC member's field at Joisarahalhalli village	Initiated the demonstration on aerobic rice cultivation at Joisarahalhalli village of Ranebennur taluk in an area of 02 acres during summer 2011-12
				Registration of 10000 farmers for SMS	Registered 5134 farmers under mobile advisory service
				Conduct of demonstrations on both FLD and OFTs in micro watershed areas	Proposed during 2012-13 at Yathnalli Micro watershed of Haveri taluk
				Conduct of on campus vocational trainings	Proposed during 2012-13
				Conduct of demonstration on precision farming in the instructional farm	Proposed during 2012-13
				Organizing farmer's exposure visits for adoption of new technologies	Proposed during 2012-13
				Financial assistance from NABARD and lead bank for organizing farmer's exposure tours and demonstration	Proposed during 2012-13
				Submission of proposal to Zonal office for establishment of sheep, goat and poly house demonstration units	Submitted proposal
				Organizing off campus training programmes on importance of micro nutrients	Conducted two trainings one on campus and one off campus at Marola Haveri taluk

## PART II - DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises

S. No	Farming system/enterprise
1	Maize, Cotton, Minor millets, Sorghum, Groundnut, Sunflower, Soybean, Greengram, Horticulture crops , Animal husbandry, Integrated farming system, Agri-silivi-horti-pasture etc.,

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

S. No	Agro-climatic Zone	Characteristics
1	Northern Transitional zone (Zone-8) & Hilly zone (Zone 9)	<ul style="list-style-type: none"> <li>• Total geographical area is 4.85 lakh ha. Cultivated area is 3.86 lakh ha. of which 72,000 ha is irrigated (13.5%).</li> <li>• Receives on an average 702 mm of rainfall annually mainly during June to October. The rainfall is received in two peaks (July &amp; September).</li> <li>• Land holding pattern of the district is &lt; 1 ha (32,719), 1-2 ha (60,095), 2-4 ha (48,885), 2-10 ha (19,613) and &gt; 10 ha (2,649).</li> </ul>

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Medium to deep black soils	Depth more than 4 ft Fertile soils	244310
2	Red Sandy loam Soils	Depth 1 to 2 ft Medium Fertile soils	228340
3	Red Shallow Soils	Depth less than 1 ft Poor Fertile soils	21760

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Maize	125960	493763	3920
2.	Cotton	107400	66051	620
3.	Rice	42950	81176	1890
4.	Groundnut	16450	22043	1340
5.	Jowar	8100	18225	2250
6.	Soybean	6100	8296	1360
7.	Minor millets	3925	2159	550
8.	Sunflower	265	122	460

\* JDA Office, Haveri

## 2.5. Weather data

Month	* Rainfall (mm)	** Temperature ° C		** Relative Humidity (%)
		Maximum	Minimum	
April -11	733.6	37	18	48
May-11	406	38	19	57
June-11	959.2	40	10	75
July-11	943.9	38	19	79
August-11	842	33	19	80
September-11	580.8	40	11	75
October-11	939.9	35	14	69
November-11	125.1	39	10	59
December-11	0	33	11	54
January-12	0	39	8	47
February-12	0	37	11	40
March-12	0	40	14	39

\* JDA Office, Haveri , \*\* myweather2.com

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	56747	24000 tones	5.63 kg milk
<i>Indigenous</i>	235402	26000 tones	2.1 kg milk
<b>Buffalo</b>	113847	32000 tones	Meat 95 kg/animal 2.5 kg /animal/day
<b>Sheep</b>			
<i>Crossbred</i>	282	287 tones	Meat 14.63 kg/animal
<i>Indigenous</i>	317902		
<b>Goats</b>	150650	158 tones	Meat 14.24 kg/animal
<b>Pigs</b>			Meat 62.5 kg/animal
<i>Crossbred</i>	-	-	
<i>Indigenous</i>	6827	2 tones	
<b>Rabbits</b>	250		
<b>Poultry</b>			
Hens	698296	Eggs 436 lakh Meat 247 tones	Egg 238 /bird/year Egg 97 /Desi bird/year
<b>Category</b>	<b>Area</b>	<b>Production</b>	<b>Productivity</b>
Fish	5605 ha WSA	6581.6 metric tone/ 4000ha	1.6 metric tone/ha

Source: 18<sup>th</sup> Live stock censuses , Department of Animal Husbandry , district Haveri

## 2.7 District profile has been Updated for 2011-12 : 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	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Haveri	Haveri Karjagi Guttala	Hosaritti Katenhalli Kurubhagound Halagi Kancharagatti Basapur Havanur Marola Kanavalli Devigiri Aaladakatti Tevaramalalli	2007-08 to 2008-09	Maize	Turcicum leaf blight Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques.
					Cotton	Leaf reddening, bad boll opening in cotton	Integrated crop management technology
					Sunflower	Necrosis, Hairy caterpillar	Integrated Pest & disease management.
					Groundnut	Low yield & improper water management	Production technology & BBF methods.
					Minor millets	Poor Nutrient management & use of local varieties	Introduction of new varieties & Nutrient Management
					Chilli	Powdery mildew Dieback, Fruit borer & Murda complex.	IPM in chilli
					Onion	Low yield, purple blotch & Poor Nutrient management	INM & Management of purple blotch.
					Tomato	Fruit borer & Alternaria Leaf blight	Management of fruit borer & Alternaria Leaf blight.
					Brinjal	Brinjal shoot and fruit borer	Integrated management of shoot and fruit borer
					Banana	Rhizome weevil, panama wilt & bunchy top	Integrated pest management
					Sheep rearing, Dairying & Poultry	FMD, poor nutritional management of live stock, scarcity of fodder	Scientific dairy farming , poultry management, Sheep management & cultivation & enrichment of fodder.
2	Savanur	Hattimattur Savanur	Madpur Baradur K.Mallapur Nadihalli Hurallikupi Tevaramalalli Hosaneralagi	2008-09 to 2009-10	Groundnut	Low yield & improper water management	INM in Oil seeds
					Greengram	Shattering of pods & Powdery mildew	Introduction of non shattering variety & Management of Powdery mildew
					Minor millets	Poor Nutrient management & use of local varieties.	Introduction of new varieties & Nutrient Management
					Flowers	Alternaria leaf blight of Chrysanthemum & damping off diseases	Integrated disease management & use of GR.
					Soybean	Leaf eating Caterpillar & rust.	Integrated management of pest & Diseases.
					Maize	Turcicum leaf blight Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques
					Cotton	Leaf reddening and bad boll opening	ICM technology



Sl.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
3	Shiggaon	Shiggaon Dundasi Bankapura	Chikkamallur Bannikoppa Surupagatti Hirebendigeri Belagali Basanal Hattigeri Bhadrapur	2008-09 to 2009-10	Maize	Turcicum leaf blight Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques
					Cotton	Leaf reddening and bad boll opening	ICM technology
					Tomato	Fruit borer & Alternaria blight.	Management of fruit borer & Alternaria blight.
					Cowpea	Poor nutrient management	Production technology.
					Minor millets	Poor Nutrient management & use of local varieties	Introduction of new varieties & Nutrient Management
					Soybean	<i>Spodoptera</i> & other Leaf eating Caterpillars.	Management of Leaf eating Caterpillar
					Greengarm	Stem fly, Powdery mildew & Shattering	Management of Greengram stem fly Use of non shattering HYV & IDM.
					Redgram	Pod borer & wilt	Management of Pod borer & Fusarium wilt.
					Groundnut	Leaf spot and rust	Production technology & BBF
					Value addition	Non utilization of minor millets	Value addition to minor millets
4	Hangal	Hangal Bommanahalli Akkialur	Tiluvalli Savekeri Sheragula Balehalli	2009-10 to 2010-11	Maize	Turcicum leaf blight, Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques
					Cotton	Leaf reddening, bad boll & opening	ICM technology
					Mango	Fruit fly & Dieback.	Integrated pest & disease management
					Banana	Rhizome weevil , panama wilt & bunchy top	Integrated pest & disease management
					Greengarm	Stem fly, Powdery mildew & Shattering	Management of Greengram stem fly Use of non shattering HYV & IDM.
					Soybean	Leaf eating Caterpillar & rust.	Management of pest & diseases.
					Redgram	Pod borer & Wilt	Management of Pod borer & Fusarium wilt.
					IG activities	Un employment during off season	IG activities

SL.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
5	Ranebennu	Ranebennur Medleri Kuppelur	Kakol Makanur Kamdod Kunbevu Itagi Benkankodda Aladakatti Aremallapur	2009-10 to 2010-11	Maize	Turcicum leaf blight, Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition Techniques
					Cotton	Leaf reddening, bad boll opening	ICM technology
					Sunflower	Necrosis, Hairy Caterpillar	Management of Hairy Caterpillar
					Groundnut	Low yield & improper water management	Production technology & BBF.
					Minor millets	Poor Nutrient management & use of local varieties	Introduction of new varieties & Nutrient Management
					Chilli	Powdery mildew, Dieback, Fruit borer & Murda complex.	Management of Powdery Mildew of Chilli INM, Management of murda complex, fruit borer & Dieback.
					Onion	Purple blotch, Twisting and Crinkling & Onion thrips	INM, Management of purple blotch & Twisting and Crinkling in onion.
					Brinjal	Brinjal shoot and fruit borer	Integrated management shoot and fruit borer
					Banana	Rhizome weevil, panama wilt & bunchy top	Integrated pest management
					Sheep rearing, Dairying & Poultry	FMD, poor nutritional management of live stock, scarcity of fodder	Scientific dairy farming , poultry management, Sheep management & cultivation & enrichment of fodder.
					Drudgery reduction	Less labour availability , drudgery prone activities	Drudgery reducing technology
6	Byadgi	Byadgi Kaginele	Hireanaji Bisalahalli Chinikatto Kurudukodihall i Katenahalli Timapur Shidenur Kadaramadalag i Belekeri	2008-09 to 2009-10	Maize	Turcicum leaf blight Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques
					Cotton	Leaf reddening, bad boll opening	ICM technology
					Sunflower	Necrosis, Hairy Caterpillar	Management Hairy Caterpillar
					Groundnut	Low yield & improper water management	Production technology & BBF.
					Greengarm	Stem fly , Powdery mildew & Shattering	Management of Greengram stem fly Use of non shattering HYV & IDM.
					Redgram	Pod borer & wilt	Management of Pod borer & Fusarium wilt
					Onion	Low yield, purple blotch & Poor Nutrient management	INM & Management of purple blotch.
					Tomato	Fruit borer & Alternaria blight	Management fruit borer & Alternaria blight
					Brinjal	Brinjal shoot and fruit borer	Integrated management of shoot and fruit borer
					Value addition	Non utilization of minor millets	Value addition to minor millets
					Sheep rearing, Dairying & Poultry	FMD, poor nutritional management of live stock, scarcity of fodder	Scientific dairy farming , poultry management, Sheep management & cultivation & enrichment of fodder.

SL.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
7	Hirekerur	Hirekerur Rattihalli Hansabhavi	Hirebudihal Kunchur Dudihalli Nolageri Harikatti Somanahalli Chikkamathur Koda Chinnahalli Kudapalli	2009-10 to 2010-11	Maize	Turcicum leaf blight, Low yield, poor nutrient management	Management of Turcicum leaf blight of Maize Production technology & Value addition techniques
					Cotton	Leaf reddening, bad boll opening	ICM technology
					Sunflower	Necrosis, Hairy Caterpillar	Management of Hairy Caterpillar.
					Groundnut	Low yield & improper water management	Production technology & BBF.
					Redgram	Pod borer & wilt.	Management of Pod borer & Fusarium wilt.
					Finger millets	Stem borer & neck blast	Introduction of resistant variety & Stem borer management
					Brinjal	Brinjal shoot and fruit borer	Integrated management of shoot and fruit borer
					Tomato	Fruit borer & Alternaria blight	Management of fruit borer & Alternaria blight
Drudgery reduction	Less labour availability , drudgery prone activities	Drudgery reducing techonology					

## 2.9 Priority thrust areas

S. No	Thrust area
1.	Nutritional management of dairy animals
2.	Feed and fodder technology
3.	Disease management in dairy / sheep / goat / poultry
4.	Management of broilers
5.	Drudgery reduction
6.	Value addition
7.	Integrated nutrient management
8.	Soil fertility management
9.	Integrated disease management

## PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
09	08	71	63	29	26	300	264

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
290	161	8700	7231	500	320	7000	5770

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
25	98	5500	3054

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	-	-

### 3.B1. Abstract of interventions undertaken based on thrust areas

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT	Title of FLD	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/ Materials	
													No	Kg
1.	Varietal evaluation	Cropping system	Low yield	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	-	02	-	-	03	0.3	-	-	-	-
2.	INM	Groundnut	Micronutrient deficiency	Micronutrient management in <i>Kharif</i> groundnut	-	01	-	-	02	3.5	-	-	-	-
3.	IDM	Groundnut	Collar rot disease	Management of collar rot disease in groundnut	-	01	0	0	0	0	0	0	02	10
4.	IDM	Bengalgram	Blight disease	Blight management in bengalgram	-	01	0	0	02	0	0	0	0	0
5.	INM	Soybean	Micronutrient deficiency	Micronutrient management in soybean	-	01	-	-	02	-	-	-	-	-
6.	IPM	Onion	Thrips	Assessment of Thrips incidence in Onion	-	02	01	-	04	-	-	-	-	-
7.	Post harvest technology	Redgram	Less sale value due to sale of unprocessed seeds	Processing of Redgram through sieves	-	01	-	-	-	-	-	-	03	-
8.	Nutritional management	Dairy	Delayed post – calving , low milking	Supplementation of By-pass Fat in Post calving dairy cows	-	02	-	-	-	-	-	-	-	-
9.	ICM	Groundnut	Low yield	-	ICM in groundnut	01	-	-	02	04	-	-	-	-
10.	ICM	Groundnut ( <i>Rabi</i> )	Low yield	-	ICM in <i>Rabi</i> Groundnut	02	-	-	04	3	-	-	-	3
11.	ICM	Soybean	Low yield	-	ICM in Soybean (JS-335)	03	0	0	03	3.6	0	0	2	12

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT	Title of FLD	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/ Materials	
													No	Kg
12.	ICM	Sunflower	Low yield	-	ICM in Sunflower (KBSH-53)	02	-	-	02		-	-	-	-
13.	ICM	Sunflower	Low yield	-	ICM in <i>Rabi</i> Sunflower	01	-	-	04	0.1	-	-	-	-
14.	ICM	Sesamum	Low yield	-	ICM in Sesamum	02	0	0	02	0.1	0	0	2	5
15.	ICM	Redgram	Nutrient deficiency, high pest and disease incidence	-	ICM in Red gram	2	-	-	3	0.6	-	-	-	-
16.	ICM	Green gram	Nutrient deficiency, High pest and disease incidence	-	ICM in Green gram	01	-	-	02	0.6	-	-	-	-
17.	ICM	Black gram	Nutrient deficiency, high pest and disease incidence	-	ICM in Black gram	01	-	-	02	0.6	-	-	-	-
18.	ICM	Bengal gram	Nutrient deficiency, high pest and disease incidence	-	ICM in Bengal gram ( <i>Rabi</i> )	02	-	-	02	1.0	-	-	-	-
19.	ICM	Little millet	Low yield	-	ICM in Little millet variety Sukshema	01	-	-	02	0.95	-	-	-	-
20.	ICM	Foxtail millet	Low yield	-	ICM in Foxtail millet variety HMT-100-1	01	-	-	02	0.16	-	-	-	-
21.	IPM	Cotton (Mirid bug managemen)	Mirid bug	-	Mirid bug management in Cotton	3	1	-	4	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT	Title of FLD	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/ Materials	
													No	Kg
22.	ICM	Cotton	Nutrient deficiency, high pest and disease incidence	-	ICM in Bt-cotton	01	0	0	1	0.2	0	0	1	2
23.	IDM	Chilli	Root rot	-	Management of root disease in chilli	02	0	0	2	0	0	0	1	12
24.	IPM	Brinjal (IPM)	Fruit borer and other pests	-	IPM in Brinjal against major pests	02	0	0	0	0	0	0	1	12
25.	IDM	Onion	Purple blotch disease reduce bulb size and yield	-	Management Purple blotch disease in Onion	03	0	0	02	00	0	0	0	0
26.	IDM	Banana	Sigatoka leaf spot	-	Management of Sigatoka disease in Banana	03	0	0	02	0	0	0	2	10
27.	Feed and fodder Management	Napier	Low milk yield Scarcity of green fodder	-	Popularization of hybrid Napier CO-3	02	-	-	-	-	-	-	-	-
28.	Feed and fodder Management	Azolla	Low milk yield & low fat percentage	-	Use of Azolla and enriched dry fodder in animal feed	02	-	-	-	-	-	-	-	-
29.	Animal nutrition	Dairy	Mineral deficiency	-	Popularization of Annapurna mineral mixture	02	-	-	-	-	-	-	-	-
30.	Disease management	Dairy	Low milk yield Anemia Parasitic infestation	-	Management of Ecto parasites in dairy animals	01	-	-	-	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT	Title of FLD	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/ Materials	
													No	Kg
31.	Disease management	Sheep	High incidence of endo parasitic leads to reduced body weight	-	Deworming using closental oral liquid	01	-	-	-	-	-	-	-	-
32.	Drudgery reduction	Envirofit chula	Drudgery involved in cooking	-	To Evaluate the efficiency of Envirofit Chula	02	-	-	03	-	-	-	05	-
33.	Incidence of storage pests	Pulse storage	Incidence of storage pests	-	Scientific storage of pulses -	01	-	-	02	-	-	-	10	-
34.	Post Harvest technology	Post Harvest	Post Harvest damages	-	Mango Harvester	01	-	-	-	-	-	-	10	-



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

S. No	Title of Technology	Source of technology	Crop/enter prise	No.of programmes conducted			
				OFT	FLD	Trg	Others
1.	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	UAS, Dharwad	Sorghum	10	-	02	Field visit -03
2.	Micronutrient management in <i>Kharif</i> groundnut	ICRISAT, Hyderabad	Groundnut	10	-	01	Field visit -02
3.	Management of collar rot disease in groundnut	PDBC, Bangalore	Groundnut	10	-	01	Field visit -02
4.	Blight management in bengalgram	ICRISAT, Hyderabad	Bengalgram	10	-	01	Field visit -02
5.	Micronutrient management in soybean	ICRISAT, Hyderabad	Soybean	10	-	01	Field visit -02
6.	Assessment of Thrips incidence in Onion	NRC for onion	Onion	10	-	02	Field visit -04
7.	Processing of Redgram through sieves	KVK, Gulbarga	Post harvest	03	-	01	Field visit -02
8.	Supplementation of By-pass Fat in Post calving dairy cows	NINAP, Bangalore	Dairy	08	-	02	-
9.	ICM in groundnut	UAS, Dharwad	Groundnut	-	05	01	Field visit -02
10.	ICM in groundnut ( <i>Rabi</i> )	UAS, Dharwad	Groundnut	-	05	02	Field visit -03 Field day-01
11.	ICM in Soybean (JS-335)	UAS, Dharwad	Soybean	-	12	03	Field visit -03
12.	ICM in Sunflower	UAS, Dharwad	Sunflower	-	05	03	Field visit -03
13.	ICM in <i>Rabi</i> Sunflower	UAS, Dharwad	Sunflower	-	05	01	Field visit -03 Field day-01
14.	ICM in Sesamum (DSS-9)	UAS, Dharwad	Sesamum	-	12	02	Field visit -03
15.	ICM in Redgram	UAS, Dharwad	Redgram	-	12	02	Field visit -03
16.	ICM in Greengram	UAS, Dharwad	Greengram	-	12	01	Field visit -02
17.	ICM in Blackgram	UAS, Dharwad	Blackgram	-	12	01	Field visit -02
18.	ICM in Bengalgram	UAS, Dharwad	Bengalgram	-	05	01	Field visit -02
19.	ICM in little millet	UAS, Dharwad	Little millet	-	12	01	Field visit -02
20.	ICM in foxtail millet	UAS, Dharwad	Foxtail millet	-	06	01	Field visit -02
21.	Mirid bug management in cotton	UAS, Dharwad	Cotton	-	25	03	Field visit -04
22.	ICM in Bt-cotton	UAS, Dharwad	Cotton	-	15	01	Field visit -01
23.	Management of root disease in chilli	TNAU, Coimbatore	Chilli	-	12	02	Field visit -03
24.	IPM in Brinjal against major pests	UAS, Dharwad	Brinjal	-	05	02	Field visit -03
25.	Management Purple blotch disease in Onion	UAS, Dharwad	Onion	-	12	03	Field visit -05
26.	Management of Sigatoka disease in Banana	TNAU, Coimbatore/ UAS, Dharwad	Banana	-	12	03	Field visit-05
27.	Popularization of hybrid Napier CO-3	TANVVAS, Chennai	Dairy	-	10	02	Field visit-05
28.	Use of Azolla and enriched dry fodder in animal feed	UAS, Dharwad	Dairy	-	20	02	Field visit-05
29.	Popularization of Annapurna mineral mixture	UAS, Dharwad	Dairy	-	10	02	Field visit-05
30.	Management of Ecto parasites in dairy animals	KVAFSU, Bidar	Dairy	-	10	01	Field visit-05
31.	Deworming using closental oral liquid	KVAFSU, Bidar	Sheep	-	10	01	Field visit-05
32.	To Evaluate the efficiency of Envirofit Chula	Colarado University, USA	Drudgery reduction	-	05	02	Field visit -03
33.	Scientific storage of pulses	UAS, Bangalore	Post harvest	-	10	01	Field visit -02
34.	Mango Harvester	UAS, Bangalore	Post harvest	-	10	01	Field visit-05

**3.B2 contd..**

Sl. No.	No. of farmers covered															
	OFT				FLD				Training				Others (Specify)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1.	6	0	2	-	-	-	-	14	11	6	7	-	-	-	-	
2.	6	1	3	0	-	-	-	6	3	2	4	-	-	-	-	
3.	8	0	2	-	-	-	-	5	2	4	2	-	-	-	-	
4.	8	0	0	-	-	-	-	4	5	3	3	-	-	-	-	
5.	4	1	4	1	-	-	-	7	4	2	2	-	-	-	-	
6.	4	0	2	-	-	-	-	11	7	4	3	-	-	-	-	
7.	-	3	-	-	-	-	-	4	3	5	5	-	-	-	-	
8.	0	0	6	2	-	-	-	10	10	20	10	-	-	-	-	
9.	-	-	-	-	3	1	1	4	3	5	5	-	-	-	-	
10.	-	-	-	-	3	2		11	4	6	2	-	-	-	-	
11.	-	-	-	-	7	5	-	15	6	7	3	-	-	-	-	
12.	-	-	-	-	4	4		6	3	2	2	-	-	-	-	
13.	-	-	-	-	2	1	1	2	6	3	4	-	-	-	-	
14.	-	-	-	-	2	1	6	15	6	3	4	-	-	-	-	
15.	-	-	-	-	6	4	1	3	4	3	5	-	-	-	-	
16.	-	-	-	-	7	3	1	4	6	2	2	-	-	-	-	
17.	-	-	-	-	7	4	1	7	3	4	2	-	-	-	-	
18.	-	-	-	-	3	2	-	6	4	5	2	-	-	-	-	
19.	-	-	-	-	3	3	3	5	5	4	3	-	-	-	-	
20.	-	-	-	-	6	-	-	4	5	3	3	-	-	-	-	
21.	-	-	-	-	13	5	5	15	6	7	3	-	-	-	-	
22.	-	-	-	-	10	0	5	6	3	4	1	-	-	-	-	
23.	-	-	-	-	10	2	0	16	4	5	1	-	-	-	-	
24.	-	-	-	-	2	1	1	14	3	8	2	-	-	-	-	
25.	-	-	-	-	9	3	-	19	13	5	3	-	-	-	-	
26.	-	-	-	-	10	2	0	17	11	8	3	-	-	-	-	
27.	-	-	-	-	09	-	01	10	-	20	-	-	-	-	-	
28.	-	-	-	-	-	-	20	-	-	20	-	-	-	-	-	
29.	-	-	-	-	-	-	10	-	-	20	-	-	-	-	-	
30.	-	-	-	-	-	-	10	-	-	33	-	-	-	-	-	
31.	-	-	-	-	-	-	10	-	-	26	-	-	-	-	-	
32.	-	-	-	-	-	5	-	10	8	4	5	-	-	-	-	
33.	-	-	-	-	-	10	-	6	3	4	2	-	-	-	-	
34.	-	-	-	-	8	2	0	4	6	2	1	-	-	-	-	

## PART IV - On Farm Trial

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

Thematic areas	Cereals	Oil seeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	00	02	-	-	-	-	-	-	-	02
Varietal Evaluation	01	-	-	-	-	-	-	-	-	01
Integrated Pest Management	-	-	-	-	01	-	-	-	-	01
Integrated Disease Management	-	01	01	-	-	-	-	-	-	02
Value addition	-	-	01	-	-	-	-	-	-	01
<b>Total</b>	<b>01</b>	<b>03</b>	<b>02</b>	<b>-</b>	<b>01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>07</b>

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

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Nutrition Management	01	-	-	-	-	01
<b>TOTAL</b>	<b>01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>01</b>

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

## 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
Integrated Nutrient Management	Groundnut	Micronutrient management in Groundnut	10	10	0.4
	Soybean	Micronutrient management in soybean	10	10	0.4
Varietal Evaluation	Sorghum	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	10	10	0.4
Integrated Pest Management	Onion	Assessment of Thrips incidence in Onion	10	10	0.1
Integrated Disease Management	Groundnut	Management of collar rot disease in groundnut	10	10	0.4
	Bengal gram	Blight management in bengalgram	10	10	0.4
Value addition	Redgram	Processing of Redgram through sieves	03	03	0.0
<b>Total</b>			<b>63</b>	<b>63</b>	<b>2.1</b>

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

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Cattle	Supplementation of by pass fat in post calving dairy calves	08	08
<b>Total</b>			<b>08</b>	<b>08</b>

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

## 4.C1. Results of Technologies Assessed

### 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
Cropping system	Rainfed	Low yield	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	10	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	Mean yield (q/ha) T <sub>1</sub> -8.0 T <sub>2</sub> -9.2 T <sub>3</sub> -10.5	Mean yield (q/ha) T1-8.0 T2-9.2 T3-10.5	Variety Anuradha recorded higher yield	Higher yield in Anuradha	-	-
Groundnut	Rainfed	Micronutrient deficiency	Micronutrient management in <i>Kharif</i> groundnut	10	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 2.5 kg/ha	Pod	Yield	19 % increase in yield	Micronutrient application is needed	-	-
Groundnut	Rainfed	Low yield due to Collar rot disease	Management of collar rot disease in groundnut	10	Collar rot management	Yield % disease incidence	Yield % disease incidence	Seed treatment with bio agents followed by soil treatment with bio agents and neem cake reduced disease incidence	High yield	-	-
Bengalgram	Rainfed	Blight disease	Blight management in bengalgram	10	Blight management	Yield % disease incidence	Yield % disease incidence	Foliar application of Hexaconazole + 19:19:19, reduced the incidence of blight	High yield	-	-
Soybean	Rainfed	Low yield due to micronutrient deficiency	Micronutrient management in soybean : JS -335	10	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 2.5 kg/ha	Seed	Yield	29 % increase in yield	Micronutrient application is needed	-	-

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	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Onion	Rainfed	Current practice of spraying of Dimethoate less effective against thrips	Assessment of Thrips incidence in Onion	10	Assessment of Thrips incidence in Onion	% thrips incidence T <sub>1</sub> -12.10 T <sub>2</sub> -8.46 T <sub>3</sub> -6.40	% thrips incidence T1-12.10 T2-8.46 T3-6.40	spraying of λ-cylhothrin reduced thrips incidence	spraying of λ-cylhothrin reduced thrips incidence besides increasing net returns	-	-
Redgram	,	Sale of unprocessed redgram has less selling value	Processing of Redgram through sieves	05	Use of sieves for processing	Change in sale value	Increased selling value of Rs. 300/q	Processed seeds fetched higher price compared to unprocessed	Farmers were convinced about the importance of processing	Hanging type of sieves are needed	Heavy weight of sieves
Cattle	,	Delayed post calving estrus reduced conception used milk yield	Supplementation of by pass fat in post calving dairy calves	08	Feeding of by pass fat 100 g /cow for 120 days	Milk yield Milk fat Number of open days	Milk yield - 14.5 Number of open days 75	Milk yield -14.5 Number of open days 75	Farmers accepted and adopted technology	-	-

Contd..

Crop	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
Sorghum	<b>Technology option 1 (Farmer's practice)</b> M 35-1, yield loss 40-45%	Farmers practice	8.0	q/ha	15000/ha	4.0
	<b>Technology option 2</b> Purified M 35-1	UAS, Dharwad	9.2	q/ha	18000/ha	4.6
	<b>Technology option 3</b> Variety - Anuradha	UAS, Dharwad	10.5	q/ha	21250/ha	5.25
Groundnut	<b>Technology option 1 (Farmer's practice)</b> Application of only major nutrient	-	1780	Kg/ha	48100	2.11
	<b>Technology option 2</b> Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha and Gypsum application @ 500 kg/ha	UAS, Dharwad	2000	Kg/ha	49000	2.19
	<b>Technology option 3</b> Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 2.5 kg/ha	ICRISAT Hyderabad	2130	Kg/ha	52850	2.23
Groundnut	<b>Technology option 1 (Farmer's practice)</b> Seed treatment with Captan @ 2.5g/kg	-	2080	Kg/ha	54400	3.96
	<b>Technology option 2:</b> ST with <i>Trichoderma</i> @ 4g/kg	UAS, Dharwad	2325	Kg/ha	62775	4.37
	<b>Technology option 3</b> ST with <i>Trichoderma</i> @ 4g/kg.seeds & soil treatment with <i>Pseudomonas</i> @ 2.5kg & neemcake @ 2.5q /ha with RDF	PDBC Bangalore	2575	Kg/ha	71025	4.72
Bengalgram	<b>Technology option 1 (Farmer's practice)</b> Dithane M 45 2.5g/lit	-	9.1	q/ha	21650	3.12
	<b>Technology option 2-</b>	Nil	8.5	q/ha	20550	3.23
	<b>Technology option 3</b> Hexaconazole 1 ml/lit + 19:19:19 foliar spray 4 g/lit	ICRISAT, Hyderabad	11.2	q/ha	27850	3.45
Soybean	<b>Technology option 1 (Farmer's practice)</b> Application of only major nutrients (NPK)	-	1020	Kg/ha	42700	2.31
	<b>Technology option 2</b> Soil application of 40:80:25:12:N:P:K:ZnSo <sub>4</sub> kg/ha	UAS, Dharwad	1260	Kg/ha	55175	2.69
	<b>Technology option 3</b> Soil application of 25 kg of Zinc sulphate & 1.25 kg Borax	ICRISAT Hyderabad	1320	Kg/ha	58200	2.77
Onion	<b>Technology option 1 (Farmer's practice)</b>	Farmers practice	120	q/ha	7000/ha	1.06

Crop	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
	Monocrotophos @ 1.5 ml/ltr.					
	<b>Technology option 2</b> Spraying of Dimethoate @ 1.75 ml/ltr. at the time of pest attacking stage and another spraying 15 days after first spray	UAS, Dharwad	138	q/ha	26800/ha	1.21
	<b>Technology option 3</b> Spraying of λ- cylothrin @ 0.5 ml/ltr. at the time of pest attacking stage and another spraying 15 days after first spray	NRC for onion	152.50	q/ha	42750/ha	1.34
Redgram	<b>Technology option 1 (Farmer's practice)-</b>	-	-	-	-	-
	<b>Technology option 2-</b>	-	-	-	-	-
	<b>Technology option 3</b> Grading of harvested redgram seeds passing through sieves of recommended mesh size	KVK Gulburga	-	-	300/q	-

Crop	Technology Assessed	Source of Technology	Number of animals	Number of open days	Conception rate (%)	Metabolic disease (%)	Average milk yield	Average fat percent
Cattle	<b>Technology option 1 (Farmer's practice)</b>	Farmers practice	08	180	5	2	12	3.3
	<b>Technology option 2</b> - feeding of concentrated feed @ 1 kg/2.5 lt of milk Production + mineral mixture 50 g/day	IVRI, Izatanagar	08	100	10	1	13	3.6
	<b>Technology option 3</b> - feeding dry + green fodder + concentrate + mineral mixture 50 g/day /cow by pass fat 100 g / day/cow	NIANP, Bangalore	08	75	20	-	14.5	3.8

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

1.

1	Title of Technology Assessed	<b>Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils</b>	
2	Problem Definition	Low yield	
3	Details of technologies selected for assessment	T <sub>1</sub>	M 35-1, yield loss 40-45%
		T <sub>2</sub>	Purified M 35-1
		T <sub>3</sub>	Variety - Anuradha
4	Source of technology	UAS, Dharwad	
5	Production system and thematic area	Production of sorghum in <i>Rabi</i> season	
6	Performance of the Technology with performance indicators	Good plant growth with high yielder	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Improved variety Anuradha given higher yield	
8	Final recommendation for micro level situation	Improved variety can be grown in <i>Rabi</i> season in Haveri district	
9	Constraints identified and feedback for research	Evolving high yielding variety	
10	Process of farmers participation and their reaction	Farmers grown improved variety and requested for the supply of seeds for the next season	

2.

1	Title of Technology Assessed	<b>Micronutrient management in <i>Kharif</i> groundnut</b>	
2	Problem Definition	Low yield due to micronutrient deficiency	
3	Details of technologies selected for assessment	T <sub>1</sub>	Application of only major nutrient
		T <sub>2</sub>	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha and Gypsum application @ 500 kg/ha
		T <sub>3</sub>	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 2.5 kg/ha
4	Source of technology	ICRISAT, Hyderabad	
5	Production system and thematic area	Rainfed and INM	
6	Performance of the Technology with performance indicators	Increase in yield by 19 % and B:C ratio 1.23	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Micronutrient application is needed	
8	Final recommendation for micro level situation	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 2.5 kg/ha	
9	Constraints identified and feedback for research	-	
10	Process of farmers participation and their reaction	Farmers participated actively through out the season	

3.

1	Title of Technology Assessed	<b>Management of collar rot disease in groundnut</b>	
2	Problem Definition	Collar rot disease	
3	Details of technologies selected for assessment	T <sub>1</sub>	Seed treatment with Captan @ 2.5g/kg
		T <sub>2</sub>	ST with Trichoderma @ 4g/kg
		T <sub>3</sub>	ST with Trichoderma @ 4g/kg.seeds & soil treatment with Pseudomonas @ 2.5kg & neemcake @ 2.5q /ha with RDF
4	Source of technology	PDBC, Bangalore	
5	Production system and thematic area	Rainfed and disease management	
6	Performance of the Technology with performance indicators	ST with Trichoderma & soil treatment with Pseudomonas @ 2.5kg & neemcake @ 2.5q /ha with RDF recorded higher yield over recommended and farmers practice with better B:C ratio	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Soil application of treatment needs more labour	
8	Final recommendation for micro level situation	Technology assessed could be adopted by the farmer	
9	Constraints identified and feedback for research	Requires extra skilled labour	
10	Process of farmers participation and their reaction	Farmers were actively involved in implementing the above OFT and opined that the ST followed by soil treatment increased the yield and controlled collar rot disease effectively.	



## 4.

1	Title of Technology Assessed	<b>Blight management in bengalgram</b>	
2	Problem Definition	Blight disease	
3	Details of technologies selected for assessment	T <sub>1</sub>	Dithane M 45 2.5g/lit
		T <sub>2</sub>	-
		T <sub>3</sub>	Hexaconazole 1 ml/lit + 19:19:19 foliar spray 4 g/lit
4	Source of technology	ICRISAT, Hyderabad	
5	Production system and thematic area	Rainfed & IDM	
6	Performance of the Technology with performance indicators	Foliar application of Hexaconazole @ 1 ml/lit + 19:19:19 @ 4g/lit at the time of incidence of the disease reduced the disease effectively their by increase in the yield	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Even though there is additional spray of fungicide and fertilizer but yield increase will be observed	
8	Final recommendation for micro level situation	Technology assessed could be adopted by the farmer	
9	Constraints identified and feedback for research	Nil and increased yield can be achieved through effective disease management	
10	Process of farmers participation and their reaction	Farmers were actively participated throughout period of OFT implementation. Then fungicidal and fertilizer combination spray controlled the disease effectively and increased the yield	

## 5.

1	Title of Technology Assessed	<b>Micronutrient management in soybean</b>	
2	Problem Definition	Low yield due to micronutrient deficiency	
3	Details of technologies selected for assessment	T <sub>1</sub>	Application of only major nutrients (NPK)
		T <sub>2</sub>	Soil application of 40:80:25:12:N:P:K:ZnSo <sub>4</sub> kg/ha
		T <sub>3</sub>	Soil application of 25 kg of Zinc sulphate & 1.25 kg Borax
4	Source of technology	ICRISAT, Hyderabad	
5	Production system and thematic area	Rainfed and INM	
6	Performance of the Technology with performance indicators	Increase in yield by 29 % and B:C ratio 2.77	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Micronutrient application is needed	
8	Final recommendation for micro level situation	Soil application FeSO <sub>4</sub> and ZnSO <sub>4</sub> @ 25 kg/ha, Gypsum application @ 500 kg/ha and Borax @ 1.25 kg/ha	
9	Constraints identified and feedback for research	-	
10	Process of farmers participation and their reaction	Farmers participated actively through act.	

## 6.

1	Title of Technology Assessed	<b>Assessment of Thrips incidence in Onion</b>	
2	Problem Definition	Current practice of spraying of daimethoate less effective against thrips	
3	Details of technologies selected for assessment	T <sub>1</sub>	Monocrotophos @ 1.5 ml/ltr.
		T <sub>2</sub>	Spraying of Dimethoate @ 1.75 ml/ltr. at the time of pest attacking stage and another spraying 15 days after first spray
		T <sub>3</sub>	Spraying of λ- cylothrin @ 0.5 ml/ltr. at the time of pest attacking stage and another spraying 15 days after first spray
4	Source of technology	NRC for Onion	
5	Production system and thematic area	Onion based cropping system (IPM)	
6	Performance of the Technology with performance indicators	Spraying of λ - cylothrin reduced thrips incidence besides increasing net return	
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring	Farmers convinced with the result obtain by spraying of λ- cylothrin	

	techniques	
8	Final recommendation for micro level situation	$\lambda$ - cylothrin is effective reducing the thrips compared to other chemicals
9	Constraints identified and feedback for research	There is a need to develop effective management practices
10	Process of farmers participation and their reaction	Farmers involved in demonstration and convinced with the results

#### 7.

1	Title of Technology Assessed	<b>Processing of Redgram through sieves</b>	
2	Problem Definition	Sale of unprocessed redgram has less selling value	
3	Details of technologies selected for assessment	T <sub>1</sub>	Farmers practice
		T <sub>2</sub>	-
		T <sub>3</sub>	Grading of harvested redgram seeds passing through sieves of recommended mesh size
4	Source of technology	KVK, Gulburga	
5	Production system and thematic area	- & post harvest technology	
6	Performance of the Technology with performance indicators	Profit/qt % increase of profit	
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Farmers were convinced about the importance of processing	
8	Final recommendation for micro level situation	Need for standardized sieves for all field crops	
9	Constraints identified and feedback for research	Heavy weight of the sieve Hanging type of sieves were preferred	
10	Process of farmers participation and their reaction	Farmers were convinced about the importance of processing	

#### 8

1	Title of Technology Assessed	<b>Supplementation of By pass fat in post calving dairy cows</b>	
2	Problem Definition	Delayed post calving estrus, decreased milk yield and fat	
3	Details of technologies selected for assessment	To get one calf per year the animal should come to estrus within 90 days after calving but due to lack of energy and there will be delay in onset of post calving estrus this causes 20-30% economic losses to dairymen. To overcome the above problem supplementation of By pass fat is done in post calving dairy cows. 100g/day/cow/120 days along concentrate and mineral mixture	
4	Source of technology	NIANP, Bangalore	
5	Production system and thematic area	Nutritional management of dairy animals	
6	Performance of the Technology with performance indicators	No. of open days 75 Conception rate 20 Metabolic disease - Nil Milk yield 14.5 litre /day	
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	Good and accepted the technology	

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

#### 4.D.2. Details of each On Farm Trial for refinement Nil

## 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	Khariif 2011	Groundnut	GPBD-4	-	ICM	<ul style="list-style-type: none"> <li>•Use of improved variety (GPBD-4).</li> <li>•Seed treatment with Trichoderma@4 g/kg.</li> <li>•Rhizobium treatment 2.5 kg/ha+ PSB @ 2.5 kg/ha</li> <li>•RDF (25 :50:25) NPK kg./ha.</li> <li>•Gypsum application @ 500 kg/ha.(35 DAS)</li> <li>•Spraying of <i>Numaraerea rileyi</i> @ 1 g /lt at 35-40 DAS</li> <li>•Spraying of Difenconazole 0.1%</li> </ul>	02	02	1	4	05	-
2.	Oilseeds	Irrigated	Rabi 2011	Groundnut	GPBD-4	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety GPBD-4</li> <li>• Skip row method of sowing</li> <li>•Seed treatment with Rhizobium + PSB @ 2.5 kg/ha each</li> <li>•Gypsum application @ 500 kg/ha</li> </ul>	02	02	0	5	5	-
3.	Oilseeds	Rainfed	Khariif 2011	Soybean	JS-335	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety JS-335</li> <li>•Seed treatment with Rhizobium + PSB</li> <li>•ZnSO<sub>4</sub> application</li> </ul>	05	05	0	12	12	-
4.	Oilseeds	Rainfed	Khariif 2011	Sunflower	-	KBSH-53	ICM	<ul style="list-style-type: none"> <li>•Promotion of Sunflower hybrid KBSH-53</li> <li>•Soil application of sulphur @ 25 kg/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> <li>•HaNPV @ 250 LE/ha</li> </ul>	03	03	0	8	8	-
5.	Oilseeds	Irrigated	Rabi/ Summer 2011-12	Sunflower	-	KBSH-53	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety KBSH-53</li> <li>•Soil application of sulphur @ 25 kg/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> </ul>	02	02	2	3	5	-

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	
6.	Oilseeds	Rainfed	Khariif 2011	Sesamum	DSS-9	.	ICM	<ul style="list-style-type: none"> <li>Improved short duration variety (DSS-9)</li> <li>Seed treatment with Trichoderma @ 200 g/ha. &amp; Rhizobium @ 400 g/ha.</li> <li>RDF (50 :25:50) NPK kg./ha.</li> <li>Soil application of ZnSO4 + FeSO4 @ 25 kg/ha</li> </ul>	05	05	9	3	12	-
7.	Pulses	Rainfed	Khariif 2011	Redgram	BSMR-736	.	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding variety BSMR-736</li> <li>Seed treatment with Trichoderma @ 5 g/kg</li> <li>Application of ZnSO4 @ 15 kg/ha</li> <li>Bird perches (20/ha)</li> <li>Pheromone traps (5 traps/ha)</li> <li>Nipping at 50 DAS</li> <li>Ha.NPV (100 LE/Ac.)</li> </ul>	05	05	02	10	12	-
8.	Pulses	Rainfed	Khariif 2011	Greengram	S-4	.	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding variety S-4</li> <li>Seed treatment with Rhizobium + PSB @ 500 g/ha</li> <li>Foliar spray with Quinalphos @ 2 ml/lit</li> <li>Foliar spray with carbendazim @ 1g/lit</li> </ul>	05	05	02	10	12	-
9.	Pulses	Rainfed	Khariif 2011	Blackgram	DU-1	.	ICM	<ul style="list-style-type: none"> <li>High yielding variety DU-1</li> <li>Seed treatment with Rhizobium + PSB @ 500 g/ha</li> </ul>	05	05	1	11	12	-
10.	Pulse	Irrigated	Rabi 2011	Bengalgram	JG-11	.	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding wilt resistant JG-11 variety</li> <li>Seed treatment with Trichoderma</li> <li>Sorghum as a sprinkle crop</li> <li>Use of bird perches (20/ha)</li> <li>Spraying of methomyl @0.6g/l</li> <li>Spraying of Nimbecidin@5 ml/l</li> <li>Drenching of carbendazim@ 2 gm/lit.</li> </ul>	02	02	00	05	05	-
11.	Millets	Irrigated	Rabi 2011	Little millet	Sukshema	.	ICM	<ul style="list-style-type: none"> <li>Popularization of Sukshema</li> <li>RDF -30:15:15 NPK kg /ha</li> </ul>	05	05	04	08	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	
12.	Millets	Irrigated	Rabi 2011	Foxtail millet	HMT-100-1	-	ICM	•Popularization of HMT-100-1 •RDF –30:15:15 NPK kg /ha	05	3.6	02	04	06	-
13.	Vegetables	Rainfed	Kharif 2011	Chilli	Bydagi kaddi	-	IDM	•Two-three times drenching of Trichoderma @ 10g/lit. •Drenching with Carbendizim	05	05	00	12	12	-
14.	Vegetables	Rainfed	Kharif 2011	Brijjal	Local	-	IPM	•Neem cake @ 2.5 qt/ha •Use of pheromone traps @ 5 /ha •Growing of maize / sorghum as border crop •Spraying of neem oil @ 5 ml/lit	02	02	02	03	05	-
15.	Vegetables	Rainfed	Kharif 2011	Onion	Local	-	IDM	•Purple blotch disease management by the two sprays of systemic natured difenaconazole 0.5ml/lit with an interval of 15 days	05	05	00	12	12	-
16.	Fruit	-	-	Mango	-	-	-	•Use of mango special •@5ml/l during pre-bloom, bloom and post-bloom periods.	10	-	-	-	-	Not conducted
17.	Fruit	Irrigated	Kharif 2011	Banana	G-9	-	IDM	•I spray of Hexaconazole 0.1% •II spray Psudomonas @ 10g/lit. + Bacillas @ 10g/lit. •III spray of Hexaconazole @ 0.1% between 25-30 days interval (sticker will be used during spraying. Ist spray immediately after the onset of disease)	05	05	03	09	12	
18.	Fodder	Irrigated	Kharif 2011	Napier	CO-4	-	Feed & fodder	•Introduction of hybrid Napier CO-4 (2,0000 root slips /.ha)	01	01	5	5	10	-

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	
19.	Fibre	Rainfed	Kharif 2011	Cotton	Kannaka		IPM	•Spraying of Acephate @ 1 gm/lit •Spraying of Neem oil @ 5 ml/lit	10	10	07	18	25	-
20.	Fibre	Rainfed	Rabi And 2011-12	Cotton	DDHC-11	.	ICM	•Popularizing DDHC-11 cotton cultivar •Seed treatment with Trichoderma •RDF (NPK) •Application of Micronutrient •Application of Vermi compost	06	06	05	10	15	-
21.	Dairy	-	Kharif 2011	Azolla	-	-	INM	•Use of azolla and enriched dry fodder in animal feed	20	20	20	00	20	-
22.	Dairy	-	Kharif 2011	Dairy	-	-	INM	•Popularization of Annapurna mineral mixture	10	10	10	00	10	-
23.	Dairy	-	Kharif 2011	Dairy	-	-	IDM	•Management of Ecto parasites in dairy animals	10	10	10	00	10	-
24.	Poultry	-	-	Poultry	-	-	-	•Popularization of Swarna dhara bird	10	-	-	-	-	Non availability of chicks
25.	Sheep and goat	-	Kharif 2011	Sheep	-	-	IDM	•De worming using CLOSENTAL oral liquid 3ml/sheep(1unit=50 sheep)	10	10	10	00	10	-
26.	Implements	-	Kharif 2011	Envirofit chulah	-	-	Drudgery reduction	•Use of Envirofit chulah	05	05	00	05	05	-

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	
27.	Implements	-	Rabi 2012	Mango Harvester	-	-	Post harvest technology	•Mango harvester	10	10	00	10	10	-
28.	Implements	-	-	Tamarind dehuller-cum-deseeder	-	-	Post harvest technology	•Tamarind dehuller-cum-deseeder	01	-	-	-	-	Equipment was not supplied
29.	Others (specify)	-	Rabi 2011	Pulse storage	-	-	Post harvest technology	•Pulse storage	10	10	00	10	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	Them atic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
1.	Oilseeds	Rainfed	<i>Kharif</i> 2011	Groundnut	GPBD-4	-	ICM	<ul style="list-style-type: none"> <li>•Use of improved variety (GPBD-4).</li> <li>•Seed treatment with Trichoderma@4 g/kg.</li> <li>•Rhizobium + PSB treatment @ 2.5 kg/ha each</li> <li>•RDF (25 :50:25) NPK kg./ha.</li> <li>•Gypsum application @ 500 kg/ha.(35 DAS)</li> <li>•Spraying of <i>Numaraerea rileyi</i> @ 1 g /lt at 35-40 DAS</li> <li>•Spraying of Difenconazole 0.1%</li> </ul>	<i>Kharif</i> 2011	NA	NA	NA	Sunflower
2.	Oilseeds	Irrigated	<i>Rabi</i> 2011	Groundnut	GPBD-4	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding GPBD-4</li> <li>• Skip row method of sowing</li> <li>•Seed treatment with Rhizobium + PSB @2.5 kg/ha each</li> <li>•Gypsum application @ 500 kg/h</li> </ul>	<i>Rabi</i> 2011	305	20	155	Cotton
3.	Oilseeds	Rainfed	<i>Kharif</i> 2011	Soybean	JS-335	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety JS-335</li> <li>•Seed treatment with Rhizobium + PSB,</li> <li>•ZnSO4 applicatio</li> </ul>	<i>Kharif</i> 2011	NA	NA	NA	Maize
4.	Oilseeds	Rainfed	<i>Kharif</i> 2011	Sunflower	KBSH-53	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of Sunflower hybrid KBSH-53</li> <li>•Soil application of sulphur @ 25 kg/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> <li>•HaNPV @ 250 LE/ha</li> </ul>	<i>Kharif</i> 2011	NA	NA	NA	Maize, Groundnut
5.	Oilseeds	Irrigated	<i>Rabi/ Summer</i> 2011-12	Sunflower	KBSH-53	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety KBSH-53</li> <li>•Soil application of sulphur @ 25 kg/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> </ul>	<i>Rabi/ Summer</i> 2011-12	290	6	160	Maize
6.	Oilseeds	Rainfed	<i>Kharif</i> 2011	Sesamum	DSS-9	-	ICM	<ul style="list-style-type: none"> <li>•Improved short duration variety (DSS-9)</li> <li>•Seed treatment with Trichoderma @ 200 g/ha. &amp; Rhizobium @ 400 g/ha.</li> <li>•RDF (50 :25:50) NPK kg./ha.</li> <li>•Soil application of ZnSO4 + FeSO4 @ 25 kg/ha</li> </ul>	<i>Kharif</i> 2011	NA	NA	NA	Maize



Sl.No	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
7.	Pulses	Rainfed	Kharif 2011	Redgram	BSMR-736	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety BSMR-736</li> <li>•Seed treatment with Trichoderma @ 5 g/kg</li> <li>•Application of ZnSO<sub>4</sub> @ 15 kg/ha</li> <li>•Bird perches (20/ha)</li> <li>•Pheromone traps (5 traps/ha)</li> <li>•Nipping at 50 DAS</li> <li>•Ha.NPV (100 LE/Ac.)</li> </ul>	Kharif 2011	NA	NA	NA	Maize, Cotton
8.	Pulses	Rainfed	Kharif 2011	Greengram	S-4	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety S-4</li> <li>•Seed treatment with Trichoderma @ 5 g/kg &amp; Rhizobium + PSB</li> <li>•Foliar spray with Quinalphos @ 2 ml/lit</li> <li>•Foliar spray with carbendazim @ 1g/lit</li> </ul>	Kharif 2011	NA	NA	NA	Maize, Cotton
9.	Pulses	Rainfed	Kharif 2011	Blackgram	DU-1	-	ICM	<ul style="list-style-type: none"> <li>•High yielding variety DU-1</li> <li>•Seed treatment with Trichoderma @ 5 g/kg &amp; Rhizobium + PSB</li> </ul>	Kharif 2011	NA	NA	NA	Maize, Cotton
10.	Pulse	Rainfed	Rabi 2011	Bengalgram	JG-11	-	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding wilt resistant JG-11 variety</li> <li>•Seed treatment with Trichoderma</li> <li>•Sorghum as a sprinkle crop</li> <li>•Use of bird perches (20/ha)</li> <li>•Spraying of methomyl @0.6g/l</li> <li>•Spraying of Nimbicidin@5 ml/l</li> <li>•Drenching of carbendazim@ 2 g/lit.</li> </ul>	Rabi 2011	NA	NA	NA	Maize , Cotton
11.	Millets	Irrigated	Rabi 2011	Little millet	Sukshema	-	ICM	<ul style="list-style-type: none"> <li>•Popularization of Sukshema</li> <li>•RDF –30:15:15 NPK kg /ha</li> </ul>	Rabi 2011	NA	NA	NA	Cotton
12.	Millets	Irrigated	Rabi 2011	Foxtail millet	HMT-100-1	-	ICM	<ul style="list-style-type: none"> <li>•Popularization of HMT-100-1</li> <li>•RDF –30:15:15 NPK kg /ha</li> </ul>	Rabi 2011	NA	NA	NA	Cotton

Sl No	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
13.	Vegetables	Rainfed	Kharif 2011	Chilli	Bydagi kaddi	-	IDM	<ul style="list-style-type: none"> <li>•Two-three times drenching of Trichoderma @ 10g/lit.</li> <li>•Drenching with Carbendizim</li> </ul>	Kharif 2011	NA	NA	NA	Maize
14.	Vegetables	Rainfed	Kharif 2011	Brinjal	Local	-	IPM	<ul style="list-style-type: none"> <li>•Neem cake @ 2.5 qt/ha</li> <li>•Use of pheromone traps @ 5 /ha</li> <li>•Growing of maize / sorghum as border crop</li> <li>•Spraying of neem oil @ 5 ml/lit</li> </ul>	Kharif 2011	NA	NA	NA	Cotton
15.	Vegetables	Rainfed	Kharif 2011	Onion	Local	-	IDM	<ul style="list-style-type: none"> <li>•Purple blotch disease management by the two sprays of systemic natured difenaconazole 0.5ml/lit with an interval of 15 days</li> </ul>	Kharif 2011	NA	NA	NA	Cotton
16.	Fruit	Irrigated	Kharif 2011	Banana	G-9	-	IDM	<ul style="list-style-type: none"> <li>•I spray of Hexaconazole 0.1%</li> <li>•II spray Psudomonas @ 10g/lit. + Bacillas @ 10g/lit.</li> <li>•III spray of Hexaconazole @ 0.1% between 25-30 days interval (sticker will be used during spraying. Ist spray immediately after the onset of disease)</li> </ul>	Kharif 2011	NA	NA	NA	-
17.	Fodder	Irrigated	Kharif 2011	Napier	CO-4	-	Feed & fodder	<ul style="list-style-type: none"> <li>•Introduction of hybrid Napier CO-4 (2,0000 root slips /.ha)</li> </ul>	Kharif 2011	NA	NA	NA	-
18.	Fibre	Irrigated	Kharif 2011	Cotton	Kanaka Bt cotton	-	IPM	<ul style="list-style-type: none"> <li>•Spraying of Acephate @ 1 g/lit</li> <li>•Spraying of Neem oil @ 5 ml/lit</li> </ul>	Kharif 2011	NA	NA	NA	Maize
19.	Fibre	Rainfed	Rabi And 2011-12	Cotton	DDHC-11	-	ICM	<ul style="list-style-type: none"> <li>•Popularizing DDHC-11 cotton cultivar</li> <li>•Seed treatment with <i>Trichoderma</i></li> <li>•RDF (NPK)</li> <li>•Application of Micronutrient</li> <li>•Application of Vermicompost</li> </ul>	Rabi And 2011-12	NA	NA	NA	Maize

## 5.B. Results of Frontline Demonstrations

### 5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
							Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR	
							H	L	A											
<b>Oilseeds</b>																				
Groundnut	<ul style="list-style-type: none"> <li>•Use of improved variety (GPBD-4).</li> <li>•Seed treatment with Trichoderma@4 g/kg.</li> <li>• Rhizobium treatment + PSB @ 2.5 kg each</li> <li>• RDF (25 :50:25) NPK kg./ha.</li> <li>•Gypsum application @ 500 kg/ha.(35 DAS)</li> <li>• Spraying of Numaraerea rileyi @ 1 g /lt at 35-40 DAS</li> <li>•Spraying of Difenconazole 0.1%</li> </ul>	GPBD-4	.	Rainfed	05	02	45.0	38.0	40.5	21.1	91.94	32500	162000	129500	4.98	28000	84400	56400	3.01	
Sunflower	<ul style="list-style-type: none"> <li>•Promotion of Sunflower hybrid KBSH-53</li> <li>•Soil application of sulphur @ 25 kgs/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> <li>•HaNPV @ 250 LE/ha</li> </ul>	.	KBSH-4	Rainfed	08	03	13.8	12.8	13.15	11.21	17.30	7706	32875	25169	4.26	7381	28025	20644	3.79	
Soybean	<ul style="list-style-type: none"> <li>•Promotion of high yielding JS-335 variety</li> <li>•Seed treatment with Rhizobium + PSB,</li> <li>•ZnSO4 applicatio</li> </ul>	JS-335	.	Rainfed	12	05	15.2	13.9	14.5	10.4	39.4	6132	21875	15743	3.57	6004	18200	12196	3.03	
Sesamum	<ul style="list-style-type: none"> <li>•Improved short duration variety (DSS-9)</li> <li>• Seed treatment with Trichoderma @ 200 g/ha. &amp; Rhizobium @ 400 g/ha.</li> <li>•RDF (50 :25:50) NPK kg./ha.</li> <li>•Soil application of ZnSO4 + FeSO4 @ 25 kg/ha</li> </ul>	DSS-9	.	Rain fed	13	05	5.8	4.8	5.3	4.0	32.5	3530	26500	22970	7.51	3193	20100	16907	6.30	
Groundnut (Rabi)	<ul style="list-style-type: none"> <li>•Promotion of high yielding GPBD-4</li> <li>•Skip row method of sowing</li> <li>•Seed treatment with Rhizobium + PSB @ 2.5 kg/ha each</li> <li>•Gypsum application @ 500 kg/h</li> </ul>	GPBD-4	.	Irrigated	12	05	28	25.5	27.1	20	35.5	27000	108400	81400	4.10	28000	80000	52000	2.86	
Sunflower (Rabi)	<ul style="list-style-type: none"> <li>•Promotion of high yielding variety KBSH-53</li> <li>•Soil application of sulphur @ 25 kgs/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> </ul>	.	KBSH-53	Irrigated	05	02	13.5	7.75	10.00	9.19	8.81	25375	40298	14923	1.58	20375	26743	6368	1.31	

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>Pulses</b>																			
Redgram	<ul style="list-style-type: none"> <li>Promotion of high yielding variety BSMR-736</li> <li>Seed treatment with Trichoderma @ 5 gm/kg</li> <li>Application of ZnSO<sub>4</sub> @ 15 kg/ha</li> <li>Bird perches (20/ha)</li> <li>Pheromone traps (5 traps/ha)</li> <li>Nipping at 50 DAS</li> <li>Ha.NPV (100 LE/Ac.)</li> </ul>	BSMR-736	,	Rainfed	12	05	12.6	10.5	11.5	9.41	22.21	7805	42000	34195	5.38	7778	32935	25157	4.23
Blackgram	<ul style="list-style-type: none"> <li>High yielding variety DU-1</li> <li>Seed treatment Rhizobium @ 500 g/ha</li> </ul>	DU-1	,	Rainfed	12	05	9.0	7.8	8.5	6.7	26.9	9000	31875	22875	3.54	8000	25125	17125	3.14
Greengram	<ul style="list-style-type: none"> <li>Promotion of high yielding variety S-4</li> <li>Seed treatment with Rhizobium + PSB @ 500 g/ha</li> <li>Foliar spray with Quinalphos @ 2 ml/lit</li> <li>Foliar spray with carbendazim @ 1g/lit</li> </ul>	S-4	,	Rainfed	12	05	7.8	6.2	6.8	5.7	19.3	9500	27200	17700	2.86	8750	22800	14050	2.60
Bengalgram	<ul style="list-style-type: none"> <li>Promotion of high yielding wilt resistant JG-11 variety</li> <li>Seed treatment with Trichoderma</li> <li>Sorghum as a sprinkle crop</li> <li>Use of bird perches (20/ha)</li> <li>Spraying of methomyl @0.6g/l</li> <li>Spraying of Nimbecidin@5 ml/l</li> <li>Drenching of carbendazim@ 2 gm/lit.</li> </ul>	JG-11	,	Irrigated	05	02	10.5	8.5	9.62	7.92	21.46	8884	33670	24786	3.79	8170	27720	19550	3.39
<b>Millets</b>																			
Little millet	<ul style="list-style-type: none"> <li>Popularization of Sukshema</li> <li>RDF -30:15:15 NPK kg /ha</li> </ul>	Sukshema	,	Irrigated	12	05	21	14	17.5	11	59	12500	35000	22500	2.8	12000	22000	10000	1.83
Foxtail millet	<ul style="list-style-type: none"> <li>Popularization of HMT-100-1</li> <li>RDF -30:15:15 NPK kg /ha</li> </ul>	HMT-100-1	,	Irrigated	06	3.6	16	11	13.5	9.5	42.1	12500	20250	750	1.62	12000	14250	2250	1.18
<b>Vegetables</b>																			
Chilli	<ul style="list-style-type: none"> <li>Two-three times drenching of Trichoderma @ 10g/lit.</li> <li>Drenching with Carbendizim</li> </ul>	Byadgi Kaddi	,	Rain fed	12	05	10.2	7.9	8.5	6.5	30.8	23876	42500	18264	1.78	21926	32500	10574	1.48

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										
Brinjal	<ul style="list-style-type: none"> <li>•Neem cake @ 2.5 qt/ha</li> <li>•Use of pheromone traps @ 5 /ha</li> <li>•Growing of maize / sorghum as border crop</li> <li>•Spraying of neem oil @ 5 ml/lit</li> </ul>	Local	,	Rain fed	05	02	215	145	180	150	20	27150	198000	181150	7.3	24850	165000	140150	6.63
Onion	<ul style="list-style-type: none"> <li>•Purple blotch disease management by the two sprays of systemic natured difenaconazole 0.5ml/lit with an interval of 15 days</li> </ul>	Local	,	Rain Fed	12	05	300	230	265	198	33.8	19465	106000	86536	4.44	16595	79200	62605	3.77
<b>Fruit</b>																			
Banana	<ul style="list-style-type: none"> <li>•I spray of Hexaconazole 0.1%</li> <li>•II spray Pseudomonas @ 10g/lit. + Bacillus @ 10g/lit.</li> <li>•III spray of Hexaconazole @ 0.1% between 25-30 days interval (sticker will be used during spraying. 1st spray immediately after the onset of disease)</li> </ul>	G-9	,	Irrigated	12	05	350	250	300	220	36.3	29550	210000	180450	7.1	27750	154000	126250	5.5
<b>Fibre crops like cotton</b>																			
Cotton (IPM)	<ul style="list-style-type: none"> <li>•Mirid bug management</li> <li>•Spraying of Acephate @ 1g/lit</li> </ul>	Kanaka Bt-Cotton	,	Rainfed	25	10	19	17	17.80	15.88	12.09	29295	60520	31225	2.07	33261	53992	20731	1.62
Cotton	<ul style="list-style-type: none"> <li>•Popularizing DDHC-11 cotton cultivar</li> <li>•Seed treatment with Trichoderma</li> <li>•RDF (NPK)</li> <li>•Application of Micronutrient</li> <li>•Application of Vermicompost</li> </ul>	DDHC-11	,	Rainfed	15	06	10.2	8.75	9.5	8.0	18.8	1224	33250	21026	2.72	10885	28000	17115	2.57
<b>Fodder</b>																			
Napier	<ul style="list-style-type: none"> <li>•Introduction of hybrid Napier CO-4 (2,0000 root slips /ha)</li> </ul>	CO-4	,	Kharif 2011	10	01	1290	1170	1200	850	41.2	-	-	-	-	-	-	-	-

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

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check</b>
Pod rot in groundnut (%)	80	50
Leaf eating caterpillar in groundnut(%)	75	25
Leaf eating caterpillar in sunflower (%)	8.5	15
Purple seed stain in soybean (%)	80	30
Leaf eating caterpillar in soybean (%)	75	25
Sunflower Head size (cm)	20.0	18.5
Sunflower Seed filling (%)	90	75
Sunflower Seed weight / head (gm)	18	16.5
Pod borer in redgram(%)	11	23
Fusarium blight in Bengalgram (%)	85	35
Pod borer in Bengalgram (%)	80	20
Fusarium wilt in Chilli (%)	70	30
Thrips in chilli	80	40
Powdery mildew in chilli (%)	65	20
Fruit borer in Brinjal	75	20
Purple blotch in onion(%)	80	15
Leaf spot disease in Banana (%)	80	20
Sucking pest in Cotton (%)	65	15
Increase in Milk yield (Litre)	6.8	5.5
Feed cost (Rs./kg)	1.5	3.0
Increase in Fat percentage in milk	3.6	3.2

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

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)			% Increase	Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)				
					Demo	Check			Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR	
Dairy																	
Azolla	•Use of azolla and enriched dry fodder in animal feed	Local	20	-	-	-	-	12.5 (Milk yield)	-	-	-	-	-	-	-	-	-
Dairy	•Popularization of Annapurna mineral mixture	Local	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dairy	•Management of Ecto parasites in dairy animals	Local	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	•Deworming using CLOSENTAL oral liquid 3ml/sheep(1unit=50 sheep)	Local	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Use of azolla and enriched dry fodder in animal feed	Yield (kg/unit/day)	2	-
	Milk yield (Liters)/day	09	08
	Fat (%)	3.4	3.0
	Feed consumption (kg)	4.9	4.5
•Popularization of Annapurna mineral mixture	Milk yield (liters)	7.2	6
	Fat (%)	3.8	3.2
•Management of Ecto parasites in dairy animals	Reduction of disease (%)	82	20
	Hb (%)	9.5	9.0
•Deworming using CLOSENTAL oral liquid 3ml/sheep(1unit=50 sheep)	Reduction of worms (%)	86	42
	Weight gain(%)	1	0.5

### 5.B.3. Fisheries –Nil

### 5.B.4. Other enterprises -Nil

### 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
Use of Envirofit chulah	850	Use of Envirofit chulah	05	-	-	-	46	-	-	-	-	-	-	-	-	-
Mango harvester	100	Mango harvester	10	10	-	-	-	-	-	-	-	-	-	-	-	-
Pulse storage	160	Pulse storage	10	-	-	-	-	-	-	-	-	-	-	-	-	-

### 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
Envirofit chulah (Cooking time (min)) –Rice	14	20
Envirofit chulah (Cooking time (min)) – Dal	17	29
Envirofit chulah (Cooking time (min)) – Water	2.6	6
Mango harvester (Physical damage)	03	25
Time taken to harvest 100 fruits (min)	15	20
Labour required to harvest 1000 fruits (hr)	2.8	3.6
Pulse storage (pest incidence )- 1 month	0	14.7
Pulse storage (pest incidence )- 6 month	0.75	18

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

Sl. No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	02	90	-
2	Farmers Training	42	770	-
3	Media coverage	00	00	-
4	Training for extension functionaries	00	00	-
5	Others (Please specify)	00	00	-

## PART VI – DEMONSTRATIONS ON CROP HYBRIDS – Nil



## 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>										
Integrated Crop Management	2	0	10	10	13	0	13	13	10	23
<b>Soil Health and Fertility Management</b>										
Soil fertility management	2	21	0	21	13	0	13	34	0	34
<b>Livestock Production and Management</b>										
Dairy Management	1	30	0	30	4	0	4	34	0	34
Poultry Management	1	20	0	20	10	0	10	30	0	30
<b>Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	1	0	0	0	25	0	25	25	0	25
<b>Plant Protection</b>										
Integrated Pest Management	1	0	0	0	31	0	31	31	0	31
Integrated Disease Management	3	68	0	68	32	0	32	100	0	100
<b>TOTAL</b>	<b>11</b>	<b>139</b>	<b>10</b>	<b>149</b>	<b>128</b>	<b>0</b>	<b>128</b>	<b>267</b>	<b>10</b>	<b>277</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>										
Micro Irrigation/Irrigation	1	16	0	16	34	4	38	50	4	54
Nursery management	1	12	0	12	20	5	25	32	5	37
Integrated Crop Management	6	73	56	129	28	28	56	101	84	185
Soil and Water Conservation	2	0	3	3	39	5	44	39	8	47
Integrated Nutrient Management	15	10	25	8	13	21	23	23	46	69
Production of organic inputs	1	29	8	37	12	11	23	41	19	60
Farm Machinery	3	38	1	39	44	10	54	82	11	93
<b>Soil Health and Fertility Management</b>										
Soil fertility management	6	886	116	1002	20	2	22	906	118	1024
Integrated water management	1	0	0	0	15	10	25	15	10	25
Nutrient use efficiency	1	10	1	11	4	0	4	14	1	15
Balanced use of fertilizers	1	15	0	15	0	0	0	15	0	15
Soil and water testing	8	199	37	236	100	7	107	299	44	343

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
General information about KVK	1	0	0	0	22	10	32	22	10	32
<b>Livestock Production and Management</b>										
Dairy Management	7	89	97	186	80	58	138	169	155	324
Poultry Management	1	0	0	0	41	0	41	41	0	41
Animal Nutrition Management	3	26	0	26	79	22	101	105	22	127
Animal Disease Management	1	37	0	37	19	0	19	56	0	56
Feed and Fodder technology	3	0	0	0	109	2	111	109	2	111
Cattle insurance police	1	40	2	42	10	0	10	50	2	52
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	5	55	21	76	72	69	141	127	90	217
Processing and cooking	1	3	3	6	4	3	7	7	6	13
Storage loss minimization techniques	1	9	25	34	3	10	13	12	35	47
Value addition	3	38	125	163	20	29	49	58	154	212
Location specific drudgery production	2	35	15	50	16	18	34	51	33	84
Embroidery & tailoring	3	1	16	17	6	42	48	7	58	65
<b>Plant Protection</b>										
Integrated Pest Management	16	407	1	408	114	2	116	521	3	524
Integrated Disease Management	36	724	65	789	434	65	499	1158	130	1288
Bio-control of pests and diseases	11	169	60	229	139	19	158	308	79	387
<b>Agro-forestry</b>										
Integrated Farming Systems	6	95	16	111	58	19	77	153	35	188
<b>TOTAL</b>	<b>147</b>	<b>3016</b>	<b>693</b>	<b>3682</b>	<b>1555</b>	<b>471</b>	<b>2015</b>	<b>4571</b>	<b>1164</b>	<b>5735</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
Bee-keeping	1	14	3	17	5	0	5	19	3	22
KVK activities	5	15	18	33	23	0	23	38	18	56
<b>TOTAL</b>	<b>6</b>	<b>29</b>	<b>21</b>	<b>50</b>	<b>28</b>	<b>0</b>	<b>28</b>	<b>57</b>	<b>21</b>	<b>78</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
KVK activities	3	524	121	645	70	20	90	594	141	735
<b>TOTAL</b>	<b>3</b>	<b>524</b>	<b>121</b>	<b>645</b>	<b>70</b>	<b>20</b>	<b>90</b>	<b>594</b>	<b>141</b>	<b>735</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
Training for trainees	1	80	3	83	0	0	0	80	3	83
Role of apiculture in agriculture	1	12	0	12	0	0	0	12	0	12
Organic farming	1	27	0	27	13	0	13	40	0	40
<b>Total</b>	<b>3</b>	<b>119</b>	<b>3</b>	<b>122</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>132</b>	<b>3</b>	<b>135</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	1	39	12	51	12	2	14	51	14	65
Integrated Pest Management	2	84	0	84	26	0	26	110	0	110
Any other (pl.specify)										
KVK Activities	1	55	2	57	22	1	23	77	3	80
<b>Total</b>	<b>4</b>	<b>178</b>	<b>14</b>	<b>192</b>	<b>60</b>	<b>3</b>	<b>63</b>	<b>238</b>	<b>17</b>	<b>255</b>

**7.G. Sponsored training programmes conducted -Nil**

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

## 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	02	27	21	48	24	09	33	04	01	05
Kisan Mela	00	00	00	00	00	00	00	00	00	00
Kisan Ghosthi	00	00	00	00	00	00	00	00	00	00
Exhibition	02	342	151	493	179	113	292	15	09	24
Film Show	00	00	00	00	00	00	00	00	00	00
Method Demonstrations	20	76	24	100	23	31	54	04	02	06
Farmers Seminar	00	00	00	00	00	00	00	00	00	00
Workshop	00	00	00	00	00	00	00	00	00	00
Group meetings	10	84	17	101	75	12	87	02	03	05
Lectures delivered as resource persons	07	295	108	403	184	136	320	15	06	21
Newspaper coverage	14	00	00	00	00	00	00	00	00	00
Radio talks	02	00	00	00	00	00	00	00	00	00
TV talks	04	00	00	00	00	00	00	00	00	00
Popular articles	05	00	00	00	00	00	00	00	00	00
Extension Literature	03	150	50	200	68	73	141	25	25	50
Advisory Services	84	210	123	333	121	98	219	06	04	10
Scientific visit to farmers field	39	185	97	282	87	65	152	05	02	07
Farmers visit to KVK	75	681	19	700	362	143	505	04	00	04
Diagnostic visits	07	71	2	73	45	23	68	04	02	06
Exposure visits	01	45	06	51	13	11	24	00	00	00
Ex-trainees Sammelan	00	00	00	00	00	00	00	00	00	00
Soil health Camp	00	00	00	00	00	00	00	00	00	00
Animal Health Camp	01	186	22	208	193	88	231	14	05	19
Agri mobile clinic	00	00	00	00	00	00	00	00	00	00
Soil test campaigns	00	00	00	00	00	00	00	00	00	00
Farm Science Club Conveners meet	00	00	00	00	00	00	00	00	00	00
Self Help Group Conveners meetings	00	00	00	00	00	00	00	00	00	00
Mahila Mandals Conveners meetings	00	00	00	00	00	00	00	00	00	00
<b>Celebration of important days</b>										
Farmers day	01	29	6	35	23	06	29	00	00	00
International womens day	01	12	22	34	06	05	11	02	02	04
<b>Any Other</b>										
Field visit	52	255	107	362	114	87	201	09	03	12
<b>Total</b>	<b>330</b>	<b>2648</b>	<b>775</b>	<b>3423</b>	<b>1517</b>	<b>900</b>	<b>2367</b>	<b>109</b>	<b>64</b>	<b>173</b>

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

**9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals	Little millet	Sukashema	-	6.75	15525	5
	Maize	SAT	-	12.12	20000	01
		Arjun	-	8.23	9053	01
	Foxtail millet	PS-4	-	0.25	425	02
	Jowar	Anuradha	-	2	4200	0
		M-35-1	-	3	6300	0
Oilseeds	Groundnut	GPBD-4	-	4.75	22800	10
		GPBD-5	-	5.20	24960	08
		DH-86	-	2.50	12000	02
		Chintamani	-	1.10	5280	02
	Procurement	GPBD-4	-	30.43	146064	10
Pulses	Soybean	JS-335	-	2.50	7500	01
	Redgram	BSMR-736	-	7.5	56250	20
	Horsegram	GPM-6	-	3	6300	01
Commercial crops	Cotton	Bulk	-	0.75	3000	01
Others	Vermicompost	-	-	8	2400	01
<b>Total</b>				<b>98.08</b>	<b>342057</b>	<b>65</b>

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

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Fruits	Sapota	-	DHS-1	580	23200	20
	Sapota	-	DHS-2	350	14000	15
Spices	Curry leaf	Suvasini	-	2600	20800	25
Others(specify)	Tamarind	PKM & SMG	-	160	4320	10
<b>Total</b>				<b>3690</b>	<b>62320</b>	<b>70</b>

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

**9.D. Production of livestock materials : Nil**

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

**10. A. Literature Developed/Published**

**(A) KVK News Letter**

Date of start	Periodicity	Number of copies distributed
2005	Quarterly	100

**(B) Literature developed/published**

Item	Title	Authors name	Nos.
Research papers	Response of Cotton to drip and surface irrigation in saline Vertisols	Daleshwar Rajak, Manjunath MV, Rajakumar G.R. and Ravishankar G.,	12
	Impact of front line demonstrations on yield and economics of onion	Hiremath, S.M., Halakatti, S.V. and D.S.M. Gowda	
	A study of immune response of calves given with varying doses of bio film haemorrhagic septicemia vaccine	Mukartal, S.Y., Kharate, Arun and Umesh, B.U.	
	Efficacy of triazoles in the management of Grey mildew disease in cotton	Sudheendra A. Ashtaputre, S.N. Chattannavar, Rajesh Patil and K.N. Pawar	
	Evaluation of cotton entries against major foliar diseases	Sudheendra A. Ashtaputre, S.N. Chattannavar, I.S. Katageri and Rajesh Patil	
	Important traits study in ruling Bt- cotton hybrids	K.N. Pawar, Sudheendra A. Ashtaputre & B.C Patil	
	Theileriosis in cross breed zebu cattle	Kharate, Arun, Mukartal, S.Y. & Umesh, B.U.	
	Impact of introduction of improved small millets technology in Haveri district of Karnataka	Halakatti S.V., Kamaraddi and Patil S.L.	
	A Novel programme to empower women through self groups in Karnataka	Halakatti S.V., Gowda D.S.M., Kamaraddi and Patil S.L.	
	Performance of groundnut frontline demonstration in Haveri district of Karnataka	Halakatti S.V., Gowda D.S.M. and Patil S.L.	
	Study on men's perception on gender issues, self help groups empowerment of women	Halakatti S.V., Vijaylaxmi Kamaraddy and Hiremath	
	Impact of frontline demonstrations on yield and economics of onion k	Hiremath S.M., Halakatti S.V.& Gouda D.S.M.	
Abstract	Market intelligence and its role in dissemination of market related information	Mukartal, S.Y., Kalakanavar Geeta & Soumya, T.M.	05
	Theileriosis in zebu cattle : A field study	Karate Arun, Malatesh, D.S. Mukartal, S.Y., Angadi, N.B., Havalhal, N.S. & Kalakanavar Geeta	
	Performance evaluation of groundnut decorticator (GSM-4 model)	Kalakanavar Geeta, Mukthamath Vinuta, Desai Satish and Patil Roopa	
	Poultry, A successful enterprise of a promising farm women entrepreneur -A case study	Mukthamath Vinuta, Kalakanavar Geeta and Hegde Hemanth	
	Efficacy of triazoles in management of powdery mildew of chilli	Sudheendra A. Ashtaputre and Rajesh Patil	
News letters	KVK News letter	KVK Staff	01
Popular articles	Hannina rasa dehakke hita	Kalakanavar Geeta and Mukthamath Vinuta	05
	Besiyandare yemmegalige pransankata	Mukartal, S.Y. and Umesh, B.U.	
	Rabies – Nayi huchhu roga nagarikatege Innoo savalu	Mukartal, S.Y. and Nagaraja, M.V.	
	Halinondige pratyaksha Sambhadavillada hagu jwarave erada halu jwara	Mukartal, S.Y. and Kharate, Arun	
	Thayandira kshemabhivruddhi hege	Jalavadi Sarojini and Kalakanavar Geeta	
Rasavari hagu Simparane mulka Sasya Poshakamshagala pooraike	Rajakumar G.R., Gaddanakeri, M.A.& Soumya, T.M.		
Extension literature	Vaignanika Dhanya sangrahane	Kalakanavar Geeta, Soumya, T.M., Sudheendra A. Ashtaputre, Mukartal, S.Y., Rajakumar G.R., Gaddanakeri, M.A. and Munganur Sairabanu	02
	Soya avareya moulyavardita khadyagalalu	Kalakanavar Geeta, Soumya, T.M., Sudheendra A. Ashtaputre, Mukartal, S.Y., Rajakumar G.R., Gaddanakeri, M.A. and Munganur Sairabanu	
<b>TOTAL</b>			<b>25</b>

**10.B. Details of Electronic Media Produced - Nil****10.C. Success Stories / Case studies, -Nil****10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year - Nil****10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development - Nil****10.F. Indicate the specific training need analysis tools/methodology followed for –Nil****10.G. Field activities**

- i. Number of villages adopted : 30
- ii. No. of farm families selected :200
- iii. No. of survey/PRA conducted : 10

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

- Status of establishment of Lab :
1. Year of establishment : 01.04.2005
  2. List of equipments purchased with amount :

Sl. No.	Name of Equipments	Qty (No's)	Rate	Cost
1.	Electronics weighing scale with battery Back up, (Physical Balance)	1	10471.00	10471.00
2.	Electronic Weighing Machine	1	57000.00	57000.00
3.	Elico Microprocessor based pH Analyser.	1	8900.00	8900.00
	<b>Accessories</b>			
	Combined Electrode type CL 51B for pH Meter Model : LI612	1	850.00	850.00
4.	Elico Microprocessor based EC TDS Analyser with CC-03B and ATC Probe.	1	9790.00	9790.00
	<b>Accessories</b>			
	Conductivity cell	1	1000.00	1000.00
5.	Elico Microprocessor based Flame photometer (SS),	1	32040.00	32040.00
	<b>Accessories</b>			
	Calcium filter	1	2200.00	2200.00
6.	Elico Microprocessor based Scanning Visible Spectro photometer. Model : SL 177	1	40050.00	40050.00
	<b>Accessories</b>			
	Software and interfacing accessories for Spectrophotometer		20000.00	20000.00
	One Pair of Quartz Cuvettes, 100 nos. of Plastic Cuvettes,			
	Tungsten Halogen lamp for Spectrophotometer			
7.	Double Distillation water still (Glass)Silica Sheathed heater, CAP : 2 L/hr	1	16000.00	16000.00
	<b>Accessories</b>			
	Spare Silica Heater for Double Distillation Water Still (Glass) Cap: 2 ltr/hr (One set –Two Nos. for Boiler I & II )	1 Set	2837.00	2837.00
8.	Double Distillation water still (Quartz)4 L./hr. Silica Sheathed heater, CAP:4 L/hr.	1	43050.00	43050.00
	<b>Accessories</b>			
	Spare Silica Heater for Double Distillation Water Still (Quartz) Cap:4 L/hr (One set –Two Nos. for Boiler I & II )	1 Set	5201.00	5201.00
9.	Water softner	1	3250.00	3250.00

Sl. No.	Name of Equipments	Qty (No's)	Rate	Cost
10.	Shaking Machine	1	47025.00	47025.00
11.	Voltas Make 220 L. Capacity Refrigerator	1	10765.00	10765.00
	V-Guard Make 500 VA Stabilizer	1	1220.00	1220.00
	Refrigerator Stand	1	300.00	300.00
12.	Microprocessor based Block Digestion system	1	137350.00	142844.00
	Microprocessor based Automatic Nitrogen Distillation system	1	5494.00	
	<b>Accessories</b>			
	Electronic Acid Neutralizer Scrubber. Model: KEL VAC.	1	30400.00	30400.00
	S S Insert Rack. Model: KES 06 L.	1	6300.00	6300.00
	Exhaust Manifold System with Teflon Adaptors. Model: KES 06 LEM.	1	7160.00	7160.00
	Viton Tube for Triacid and Diacid Digestion. Model: KES VT.	3	3250.00	9750.00
13.	Hot air oven	1	16471.00	16471.00
14.	Hot plate	1	3046.00	3046.00
15.	Grinder	1	15435.00	15435.00
16.	Water Softener "Bhanu" Make Aqua Soft water softener (Model: AS-600)	1	9752.00	9752.00
17.	Post Hole Augar Head Size: 3"	1	1200.00	1200.00
18.	Screw type Augar Head size :1.5 "	1	980.00	980.00
19.	Sieve Brass Frame	04	650.00	2860.00
20.	<b>Laboratory wares</b>			
	Laboratory tables	03	16931.00	118517.00
		04	18944.00	75776.00
	Slotted angular iron racks	05	1421.00	7105.00
	Steel cabinet	9	5326.00	47934.00
	Wash basin	3	1500.00	45000.00
	Exhaust fan	3	1500.00	1500.00
	Laboratory racks	06	1026.00	6156.00
Water tap with swan neck	3	785.00	2355.00	
21.	Gas burner	01	1500.00	1500.00
22.	Laboratory stools	05	828.00	4140.00
23.	Laboratory Chemicals	-	-	85346.00
24.	Glassware	-	-	91357.00
<b>Total</b>				<b>10,44,833.00</b>

Details of samples analyzed so far since establishment of SWTL: (Including present year till date 31.03.2012)

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	4314	4314	Max 375	272050
Water Samples	3763	3763	Max 358	176550
<b>Total</b>	<b>8077</b>	<b>8077</b>	<b>Max 375</b>	<b>448600</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	2583	2583	375	176300
Water Samples	2183	2183	358	110550
<b>Total</b>	<b>4766</b>	<b>Max 2583</b>	<b>Max 375</b>	<b>286850</b>

10.I. Technology Week celebration during 2011-12 : Nil

10. J. Interventions on drought mitigation -Nil



## **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)
Popularization of groundnut variety GPBD-4	800	100	12000/ha	38000/ha

### **11.B. Cases of large scale adoption**

Groundnut is an important oilseed crop of Haveri district which is widely grown during both *Kharif* and *Rabi* season. Haveri district's soil and climatic conditions are most suitable for the cultivation of groundnut especially in Savanur, Shiggaon, Haveri, Byadgi and Ranebennur talukas. Farmers of the district were using TMV-2, JL-24 and local varieties of groundnut for cultivation, which were highly susceptible for leaf spot and rust diseases, which in turn lead to low yield, poor fodder quality and also there was difficulty in harvesting due to drying up of haulm. During 2005 a new groundnut variety GPBD-4 with moderate resistance to leaf rust and leaf spot was given to a farmer of Tevaramelihalli village in Savannur taluk under farm trail. Farmer's were given 15 kg seeds of groundnut variety GPBD-4. Performance of the variety pleased the farmer and his fellow farmers of the village were provoked the villagers to take up cultivation of the same variety in the ensuing season. During 2006 about four farmers of the village took up the frontline demonstration of GPBD-4 through KVK. Further, the area under GPBD-4 has increased year after year in and around Tevaramelihalli.

Trainings, group discussions, method and result demonstrations, field days conducted by KVK created awareness on the variety and its improved production practices. Literature published by KVK also enriched their knowledge.

Performance of the variety and the intervention of KVK in increasing the productivity have jointly resulted in increased area under GPBD-4 in the entire district. Now, about 1000 acres in Tevaramelihalli village *viz.*, Haravi, Koodala, Kalmadagu, Baraduru, Koonimelihalli, Varadahalli, Naganur and Mannangi have nearly 200 to 800 acres under the cultivation of groundnut variety GPBD-4. Farmers are gaining an additional income of Rs. 1500 to 2000 per quintal due to the quality of GPBD-4 seeds (Rs. 3800 -4700 /q) compared to TMV-2 (Rs. 1800-3200/q).

Also, this variety has spread to neighboring districts *viz.*, Shimoga, Gadag, Dharwad, Uttar Kannada, Davangere. The KVK has also spread this variety by distributing to some KVKs of the state and the neighboring state Tamilnadu for conducting frontline demonstration.

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

## PART XII - LINKAGES

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

Name of organization	Nature of linkage
State Dept. of Agriculture	Training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
State Dept. of Horticulture	Training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
Rural Development Institutes (Zilla & Taluk Panchayats)	Training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
State Dept. of Animal husbandry & Veterinary Services	Training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
Karnataka Milk Federation	Training programmes.
Women and Child Development Department	Training programmes.
Karnataka Oil Seeds Federation	Supply of inputs
NABARD, Vijaya Bank, State Bank of India, M.G. Bank and Syndicate Bank.	Participation in meeting, conducting training programmes and promotion of TTC.
Bharath Agro Industries Foundation, Haveri	Training programmes
GRASIM Janakalyan Trust, Kumar Pattanum	Training programmes.
Sheep and Wool Development Board	Trainings.
State Dept. of Watershed	Training programmes, IFS Demonstration, Seminars and Field days.
JSYS	Training programmes, Demonstration, Seminars and Field days.
National Horticultural Research and Development Federation	Joint implementation and participation in meeting/Training Programme
Spice Board	Joint implementation and participation in meeting/Training Programme
Different private firms dealing with Medicinal and Aromatic crops	Training Programmes
IIHR, Bangalore	Technical consultancy
NGO's	Joint implementation and participation in meeting.
Mahila Mandals and Youth Clubs	Joint implementation and participation in meeting.
Sugar Factories	Joint diagnostic survey and participation in meeting
Karnataka Sugar Institute, Belgaum	Joint diagnostic survey and participation in meeting/ Training
Successful Entrepreneurs	Training Programme/ Technical Advice
Vijaya Bank Sponsored Employment Training Institute	Joint implementation participation in meeting and Training Programme.

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

### 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? Involved

#### 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
03	Training programmes	Millet production and value addition	01	-	-
		Soil fertility management	03	-	-

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

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

**12.F. Details of linkage with RKVY : Nil**

**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	16	8000	-
May 2011	10	6035	-
June 2011	23	13898	-
July 2011	47	30768	-
August 2011	16	10804	-
September 2011	32	24043	-
October 2011	14	5994	-
November 2011	03	1659	-
December 2011	00	00	-
January 2012	18	7457	-
February 2012	20	10846	-
March 2012	23	11467	-

**PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK**

**13.A. Performance of demonstration units (other than instructional farm) : Nil**

**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.)	
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income
<b>Cereals</b>								
Little millet	09.06.2011	27.09.2011	0.8	Sukashema	TL	6.75	10000	5525
Maize	18.06.2011	22.10.2011	1.3	SAT	TL	12.12	18000	2000
Foxtail millet	10.06.2011	25.09.2011	1.9	PS-4	TL	0.25	400	25
Jowar	24.10.2011	15.02.2012	0.4	Anuradha	TL	2	4200	200
Maize	03.10.2011	24.01.2012	0.8	M-35-1	TL	3	5500	800
Maize	20.06.2011	28.10.2011	0.5	Arjun	Bulk	8.23	8000	1053
<b>Pulses</b>								
Soybean	22.06.2011	25.09.2011	0.3	JS-335	TL	2.5	5000	2500
Redgram	02.07.2011	15.11.2011	2.5	BSMR-736	TL	7.5	30000	26250
Horsegram	01.08.2011	2.12.2011	1.2	GPM-6	TL	3	5000	1300
<b>Oilseeds</b>								
Groundnut	30.06.2011	28.10.2011	0.2	GPBD-4	TL	4.75	600	16800
Groundnut	30.06.2011	29.10.2011	0.2	GPBD-5	TL	5.20	600	18960
Groundnut	30.06.2011	30.10.2011	0.1	DH-86	TL	2.5	3000	9000
Groundnut	30.06.2011	01.11.2011	0.05	Chintamani	TL	1.1	2000	3280

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

**13.D. Performance of instructional farm (livestock and fisheries production)****13.E. Utilization of hostel facilities**

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2011	-	-	During 2011-12, KVK hostel was utilized by the Newly opened Agricultural college at Hanumanamatti So students have used the hostel Since 05.09.2012 to 31.03.2012
May 2011	-	-	
June 2011	-	-	
July 2011	-	-	
August 2011	-	-	
September 2011	-	-	
October 2011	-	-	
November 2011	-	-	
December 2011	-	-	
January 2012	-	-	
February 2012	-	-	
March 2012	-	-	

**13.F. Database management**

S. No	Database target	Database created
1.	Training Database	Completed
2.	Seeds and Planting Material Database	Completed
3.	Frontline Demonstrations Database	Completed
4.	Soil Analysis Data Base	Completed
5.	Water Analysis Data Base	Completed
6.	KVK Inventory of Assets	Under progress
7.	Database of Extension Programmes	Under progress
8.	Resource inventory of the District	Under progress
9.	Farmers Database	Under Progress
10.	KVK Accounts Database	Under progress
11.	Technology Inventory for the District	Under progress
12.	Database for Technologies assessed and Refined	Under progress

**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.)		
10,000,00	9,11,000	Adoption of sprinkler irrigation system	-	-	3690 *	200	50	500000	<ul style="list-style-type: none"> <li>• Establishment mother plants of sapota, curry leaf, Guava and tamarind varieties</li> <li>• Establishment of nursery</li> <li>• Establishment of fodder bank</li> <li>• Maintenance of dairy farm</li> <li>• Maintenance of Horticulture garden (Coconut and tamarind plants)</li> <li>• Maintenance of vermicompost and azolla</li> </ul>

\* Sapota -930, Curryleaf-2600, Tamarind-160

## 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	UAS Dharwad	003151	Comptroller	-	580002304	SBIN0003151
With KVK	State Bank of India	Ranebennut	00909	Programmer Co-ordinator	10811387935	581002115	SBIN0000909

### 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>	58.00	58.00	57.00
2	<b>Traveling allowances</b>	1.25	1.25	1.25
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)	1.80	1.80	1.80
B	POL, repair of vehicles, tractor and equipments	1.20	1.20	1.20
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.30	0.30	0.28
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.20	0.20	0.20
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.50	2.50	2.50
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1.00	1.00	0.99
G	Extension Activities	0.15	0.15	0.14
H	Training of extension functionaries	0.15	0.15	0.15
I	Maintenance of buildings	0.40	0.40	0.40
J	Farmers Field School	0.25	0.25	0.25
K	Establishment of Soil, Plant & Water Testing Laboratory	0.00	0.00	0.00
L	Library	0.05	0.05	0.05
	<b>TOTAL (A)</b>	<b>67.25</b>	<b>67.25</b>	<b>66.21</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	0.00	0.00	0.00
2	<b>Equipments including SWTL &amp; Furniture</b>	0.00	0.00	0.00
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	<b>Library</b> (Purchase of assets like books & journals)	0.00	0.00	0.00
	<b>TOTAL (B)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>C. REVOLVING FUND</b>		0.00	0.00	0.00
<b>GRAND TOTAL (A+B+C)</b>		<b>67.25</b>	<b>67.25</b>	<b>66.21</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
<b>ICAR</b>				
April 2009 to March 2010	-	-	-	-
April 2010 to March 2011	-	-	-	-
April 2011 to March 2012	1.49	6.43	5.07	2.67
<b>Training</b>				
April 2009 to March 2010	-	-	-	-
April 2010 to March 2011	-	-	-	-
April 2011 to March 2012	1.46	1.03	1.08	1.40

#### 15. 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
Mrs. Geeta Kalakanavar	SMS (Home Science)	Public private partnership in development scenario	EEI, Hyderabad	30.05.2011 to 03.06.2011
Mrs. Geeta Kalakanavar	SMS (Home Science)	Advances in educational methodologies and instructional technologies	NAARM, Hyderabad	03 to 23 July, 2011
Ms. Rekha K. N.	Prog. Asst. (Computer)	Content Uploadation and Maintenance of Kiosks	UAS, Dharwad	08.07.2011
Mrs. Saroja T.B.	Typist	Content Uploadation and Maintenance of Kiosks	UAS, Dharwad	08.07.2011
Mrs. Geeta Kalakanavar	SMS (Home Science)	Protective agro textiles: Advances and future prospects	UAS, Dharwad	19.09.2011
Ms. Rekha K. N.	Prog. Asst. (Computer)	IT Based Decision Support Systems for Digital Content Development" Under NAIP (L&CB)	NAARM, Hyderabad	20-30 December, 2011
Dr. S. A. Ashtaputre	Assoc.Prof. (Pl. Path.)	Orientation Training Programme	KVK, Namakkal, Tamil Nadu	29 <sup>th</sup> January to 4 <sup>th</sup> February, 2012
Dr. S.Y. Mukartal	SMS (Animal Science)	Trends in sheep and goat rearing	Shimoga	5 <sup>th</sup> to 7 <sup>th</sup> March, 2012
Dr. T.M. Soumya	SMS (Agronomy)	Computer aided irrigation water allocation	UAS, Dharwad	29.03.2012
Ms. Rekha K. N.	Prog. Asst. (Computer)	Computer aided irrigation water allocation	29.03.2012 UAS, Dharwad	29.03.2012

#### 16. Please include any other important and relevant information which has not been reflected above -Nil

# 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	Groundnut	Micronutrient management in Groundnut	10
	Soybean	Micronutrient management in soybean	10
Varietal Evaluation	Sorghum	Introduction of new variety for increasing productivity of <i>Rabi</i> sorghum in shallow soils	10
Integrated Pest Management	Onion	Assessment of Thrips incidence in Onion	10
Integrated Disease Management	Groundnut	Management of collar rot disease in groundnut	10
	Bengal gram	Blight management in bengalgram	10
		<b>Total</b>	<b>60</b>

### Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Nutrition Management	Cattle	Supplementation of by pass fat in post calving dairy calves	08
		<b>Total</b>	<b>08</b>

### Summary of technologies assessed under various enterprises - Nil

### Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Value addition	Redgram	Processing of Redgram through sieves	03
		<b>Total</b>	<b>03</b>

## II. TECHNOLOGY REFINEMENT- Nil

### Summary of technologies refined under various crops –Nil

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

### Summary of technologies refined under various enterprises -Nil

### Summary of technologies refined under home science -Nil



### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters			Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo.	Check			Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
<b>Millet</b>																		
Little millet	ICM	<ul style="list-style-type: none"> <li>•Popularization of Sukshema</li> <li>•RDF -30:15:15 NPK kg /ha</li> </ul>	12	05	17.5	11	59				12500	35000	22500	2.8	12000	22000	10000	1.83
Foxtail millet	ICM	<ul style="list-style-type: none"> <li>•Popularization of HMT-100-1</li> <li>•RDF -30:15:15 NPK kg /ha</li> </ul>	06	3.6	13.5	9.5	42.1				12500	20250	750	1.62	12000	14250	2250	1.18
<b>Oil seeds</b>																		
Groundnut	ICM	<ul style="list-style-type: none"> <li>•Use of improved variety (GPBD-4).</li> <li>•Seed treatment with Trichoderma@4 g/kg.</li> <li>• Rhizobium treatment + PSB @ 2.5 kg each</li> <li>• RDF (25 :50:25) NPK kg./ha.</li> <li>•Gypsum application @ 500 kg/ha.(35 DAS)</li> <li>• Spraying of Numaraerea rileyi @ 1 g /lt at 35-40 DAS</li> <li>•Spraying of Difenconazole 0.1%</li> </ul>	05	02	40.5	21.1	91.94	Pod rot in groundnut (%)	80	50	32500	162000	129500	4.98	28000	84400	56400	3.01
								Leaf eating caterpillar in groundnut(%)	75	25								
Sunflower	ICM	<ul style="list-style-type: none"> <li>•Promotion of Sunflower hybrid KBSH-53</li> <li>•Soil application of sulphur @ 25 kg/ha</li> <li>•Foliar spray with Borax @ 0.2 %</li> <li>•HaNPV @ 250 LE/ha</li> </ul>	08	03	13.15	11.21	17.30	Leaf eating caterpillar in sunflower (%)	8.5	15	7706	32875	25169	4.26	7381	28025	20644	3.79
Soybean	ICM	<ul style="list-style-type: none"> <li>•Promotion of high yielding JS-335 variety</li> <li>•Seed treatment with Rhizobium + PSB,</li> <li>•ZnSO4 applicatio</li> </ul>	12	05	14.5	10.4	39.4	Purple seed stain in soybean (%)	80	30	6132	21875	15743	3.57	6004	18200	12196	3.03
								Leaf eating caterpillar in soybean (%)	75	25								
Sesamum	ICM	<ul style="list-style-type: none"> <li>•Improved short duration variety (DSS-9)</li> <li>• Seed treatment with Trichoderma @ 200 g/ha. &amp; Rhizobium @ 400 g/ha.</li> <li>•RDF (50 :25:50) NPK kg./ha.</li> <li>•Soil application of ZnSO4 + FeSO4 @ 25 kg/ha</li> </ul>	13	05	5.3	4.0	32.5	-	-	-	3530	26500	22970	7.51	3193	20100	16907	6.30

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters			Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo.	Check			Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Groundnut (Rabi)	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding GPBD-4</li> <li>Skip row method of sowing</li> <li>Seed treatment with Rhizobium + PSB @ 2.5 kg/ha each</li> <li>Gypsum application @ 500 kg/h</li> </ul>	12	05	27.1	20	35.5	-	-	-	27000	108400	81400	4.10	28000	80000	52000	2.86
Sunflower (Rabi)	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding variety KBSH-53</li> <li>Soil application of sulphur @ 25 kg/ha</li> <li>Foliar spray with Borax @ 0.2 %</li> </ul>	05	02	10.00	9.19	8.81	Sunflower Head size (cm)	20.0	18.5	25375	40298	14923	1.58	20375	26743	6368	1.31
								Sunflower Seed filling (%)	90	75								
								Sunflower Seed weight / head (g)	18	16.5								
<b>Pulses</b>																		
Redgram	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding variety BSMR-736</li> <li>Seed treatment with Trichoderma @ 5 g/kg</li> <li>Application of ZnSO4 @ 15 kg/ha</li> <li>Bird perches (20/ha)</li> <li>Pheromone traps (5 traps/ha)</li> <li>Nipping at 50 DAS</li> <li>Ha.NPV (100 LE/Ac.)</li> </ul>	12	05	11.5	9.41	22.21	Pod borer in redgram(%)	11	23	7805	42000	34195	5.38	7778	32935	25157	4.23
Black gram	ICM	<ul style="list-style-type: none"> <li>High yielding variety DU-1</li> <li>Seed treatment Rhizobium @ 500 g/ha</li> </ul>	12	05	8.5	6.7	26.9	-	-	-	9000	31875	22875	3.54	8000	25125	17125	3.14
Greengram	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding variety S-4</li> <li>Seed treatment with Rhizobium + PSB @ 500 g/ha</li> <li>Foliar spray with Quinalphos @ 2 ml/lit</li> <li>Foliar spray with carbendazim @ 1g/lit</li> </ul>	12	05	6.8	5.7	19.3	-	-	-	9500	27200	17700	2.86	8750	22800	14050	2.60
Bengal gram	ICM	<ul style="list-style-type: none"> <li>Promotion of high yielding wilt resistant JG-11 variety</li> <li>Seed treatment with Trichoderma</li> <li>Sorghum as a sprinkle crop</li> <li>Use of bird perches (20/ha)</li> <li>Spraying of methomyl @0.6g/l</li> <li>Spraying of Nimbicidin@5 ml/l</li> <li>Drenching of carbendazim@ 2 gm/lit.</li> </ul>	05	02	9.62	7.92	21.46	Fusarium blight in Bengalgram (%)	85	35	8884	33670	24786	3.79	8170	27720	19550	3.39
								Pod borer in Bengalgram (%)	80	20								

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters			Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo.	Check			Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
<b>Vegetables</b>																		
Chilli	IDM	•Two-three times drenching of Trichoderma @ 10g/lit. •Drenching with Carbendizim	12	05	8.5	6.5	30.8	Fusarium wilt in Chilli (%)	70	30	23876	42500	18264	1.78	21926	32500	10574	1.48
								Thrips in chilli	80	40								
								Powdery mildew in chilli (%)	65	20								
Brinjal	IPM	•Neem cake @ 2.5 qt/ha •Use of pheromone traps @ 5 /ha •Growing of maize / sorghum as border crop •Spraying of neem oil @ 5 ml/lit	05	02	180	150	20	Fruit borer in Brinjal	75	20	27150	198000	181150	7.3	24850	165000	140150	6.63
Onion	IDM	•Purple blotch disease management by the two sprays of systemic natured difenaconazole 0.5ml/lit with an interval of 15 days	12	05	265	198	33.8	Purple blotch in onion(%)	80	15	19465	106000	86536	4.44	16595	79200	62605	3.77
<b>Fruit</b>																		
Banana	IDM	•I spray of Hexaconazole 0.1% •II spray Psudomonas @ 10g/lit. + Bacillas @ 10g/lit. •III spray of Hexaconazole @ 0.1% between 25-30 days interval (sticker will be used during spraying. Ist spray immediately after the onset of disease)	12	05	300	220	36.3	Leaf spot disease in Banana (%)	80	20	29550	210000	180450	7.1	27750	154000	126250	5.5
<b>Fibre crops like cotton</b>																		
Cotton (IPM)	IPM	Mirid bug management Spraying of Acephate @ 1g/lt	25	10	17.80	15.88	12.09				29295	60520	31225	2.07	33261	53992	20731	1.62
Cotton	ICM	•Popularizing DDHC-11 cotton cultivar •Seed treatment with Trichoderma •RDF (NPK) •Application of Micronutrient •Application of Vermicompost	15	06	9.5	8.0	18.8	Sucking pest in Cotton (%)	65	15	1224	33250	21026	2.72	10885	28000	17115	2.57
<b>Fodder</b>																		
Napier	Feed & Fodder	•Introduction of hybrid Napier CO-4 (2,0000 root slips /.ha)	10	01	1200	850	41.2	Increase in Milk yield (Litre)	6.8	5.5	-	-	-	-	-	-	-	-
								Feed cost (Rs./kg)	1.5	3.0								
								Increase in Fat percentage in milk	3.6	3.2								
<b>Total</b>			<b>214</b>	<b>84</b>														

## Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
<b>Dairy</b>																	
Azolla	Nutrient Management	•Use of azolla and enriched dry fodder in animal feed	20	-	9 liter/day	8 liter/day	12.5 (Milk yield)	Yield (Kg/unit/day):2	-	-	-	-	-	-	-	-	-
								Fat (%) 3.4	Fat (%) 3.0								
								Feed consumption (Kg) 4.9	Feed consumption (Kg) 4.5								
Dairy	Nutrient Management	•Popularization of Annapurna mineral mixture	10	-	7.2 liter/day	6 liter/day	-	Fat (%) 3.8	Fat (%) 3.2	-	-	-	-	-	-	-	-
Dairy	Disease management	•Management of Ecto parasites in dairy animals	10	-	Reduction of disease (%) 82	Reduction of disease (%) 20	-	Hb(%) 9.5	Hb(%) 9.0	-	-	-	-	-	-	-	-
<b>Sheep and goat</b>																	
Sheep and goat	Disease management	•Deworming using CLOSENTAL oral liquid 3ml/sheep(1unit=50 sheep)	10	10	86 % reduction of worms	42 % reduction of worms	-	Weight gain(%) 1	Weight gain(%)0.5	-	-	-	-	-	-	-	-
<b>Total</b>			<b>50</b>	<b>10</b>													

**Fisheries -Nil**

**Other enterprises - Nil**

**Women empowerment -Nil**

### Farm implements and machinery

Name of the implement	Name of the technology demonstrated	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									
Use of Envirofit chulah	Use of Envirofit chulah	05	-	-	-	46	-	-	-	-	-	-	-	-
Mango harvester	Mango harvester	10	10	Physical damage		-	-	-	-	-	-	-	-	-
				3	25									
Pulse storage	Pulse storage	10	-	Pest incidence (%)		-	-	-	-	-	-	-	-	-
				1 month storage: 0	1 month storage :14.7									
				6 months storage : 0.75	6 months storage: 18									

**Other enterprises- Nil**

**Demonstration details on crop hybrids – Nil**

## 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>										
Integrated Crop Management	2	0	10	10	13	0	13	13	10	23
<b>Soil Health and Fertility Management</b>										
Soil fertility management	2	21	0	21	13	0	13	34	0	34
<b>Livestock Production and Management</b>										
Dairy Management	1	30	0	30	4	0	4	34	0	34
Poultry Management	1	20	0	20	10	0	10	30	0	30
<b>Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	1	0	0	0	25	0	25	25	0	25
<b>Plant Protection</b>										
Integrated Pest Management	1	0	0	0	31	0	31	31	0	31
Integrated Disease Management	3	68	0	68	32	0	32	100	0	100
<b>TOTAL</b>	<b>11</b>	<b>139</b>	<b>10</b>	<b>149</b>	<b>128</b>	<b>0</b>	<b>128</b>	<b>267</b>	<b>10</b>	<b>277</b>

### 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>										
Micro Irrigation/Irrigation	1	16	0	16	34	4	38	50	4	54
Nursery management	1	12	0	12	20	5	25	32	5	37
Integrated Crop Management	6	73	56	129	28	28	56	101	84	185
Soil and Water Conservation	2	0	3	3	39	5	44	39	8	47
Integrated Nutrient Management	15	10	25	8	13	21	23	23	46	69
Production of organic inputs	1	29	8	37	12	11	23	41	19	60
Farm Machinery	3	38	1	39	44	10	54	82	11	93
<b>Soil Health and Fertility Management</b>										
Soil fertility management	6	886	116	1002	20	2	22	906	118	1024
Integrated water	1	0	0	0	15	10	25	15	10	25

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
management										
Nutrient use efficiency	1	10	1	11	4	0	4	14	1	15
Balanced use of fertilizers	1	15	0	15	0	0	0	15	0	15
Soil and water testing	8	199	37	236	100	7	107	299	44	343
General information about KVK	1	0	0	0	22	10	32	22	10	32
<b>Livestock Production and Management</b>										
Dairy Management	7	89	97	186	80	58	138	169	155	324
Poultry Management	1	0	0	0	41	0	41	41	0	41
Animal Nutrition Management	3	26	0	26	79	22	101	105	22	127
Animal Disease Management	1	37	0	37	19	0	19	56	0	56
Feed and Fodder technology	3	0	0	0	109	2	111	109	2	111
Cattle insurance police	1	40	2	42	10	0	10	50	2	52
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	5	55	21	76	72	69	141	127	90	217
Processing and cooking	1	3	3	6	4	3	7	7	6	13
Storage loss minimization techniques	1	9	25	34	3	10	13	12	35	47
Value addition	3	38	125	163	20	29	49	58	154	212
Location specific drudgery production	2	35	15	50	16	18	34	51	33	84
Embroidery & tailoring	3	1	16	17	6	42	48	7	58	65
<b>Plant Protection</b>										
Integrated Pest Management	16	407	1	408	114	2	116	521	3	524
Integrated Disease Management	36	724	65	789	434	65	499	1158	130	1288
Bio-control of pests and diseases	11	169	60	229	139	19	158	308	79	387
<b>Agro-forestry</b>										
Integrated Farming Systems	6	95	16	111	58	19	77	153	35	188
<b>TOTAL</b>	<b>147</b>	<b>3016</b>	<b>693</b>	<b>3682</b>	<b>1555</b>	<b>471</b>	<b>2015</b>	<b>4571</b>	<b>1164</b>	<b>5735</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
Bee-keeping	1	14	3	17	5	0	5	19	3	22
General information about KVK	5	15	18	33	23	0	23	38	18	56
<b>TOTAL</b>	<b>6</b>	<b>29</b>	<b>21</b>	<b>50</b>	<b>28</b>	<b>0</b>	<b>28</b>	<b>57</b>	<b>21</b>	<b>78</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
General information about KVK	3	524	121	645	70	20	90	594	141	735
<b>TOTAL</b>	<b>3</b>	<b>524</b>	<b>121</b>	<b>645</b>	<b>70</b>	<b>20</b>	<b>90</b>	<b>594</b>	<b>141</b>	<b>735</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	1	12	0	12	0	0	0	12	0	12
Livestock feed and fodder production	1	80	3	83	0	0	0	80	3	83
Organic farming	1	27	0	27	13	0	13	40	0	40
<b>Total</b>	<b>3</b>	<b>119</b>	<b>3</b>	<b>122</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>132</b>	<b>3</b>	<b>125</b>

### 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	1	39	12	51	12	2	14	51	14	65
Integrated Pest Management	2	84	0	84	26	0	26	110	0	110
Any other (pl.specify)										
KVK Activities	1	55	2	57	22	1	23	77	3	80
<b>Total</b>	<b>4</b>	<b>178</b>	<b>14</b>	<b>192</b>	<b>60</b>	<b>3</b>	<b>63</b>	<b>238</b>	<b>17</b>	<b>255</b>

Sponsored training programmes -Nil

Details of Vocational Training Programmes carried out for rural youth -Nil



## V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	84	552	10	562
Diagnostic visits	7	141	6	147
Field Day	2	81	5	86
Group discussions	10	188	05	193
Kisan Ghosthi	0	0	0	0
Film Show	0	0	0	0
Self -help groups	0	0	0	0
Kisan Mela	0	0	0	0
Exhibition	2	785	24	809
Scientists' visit to farmers field	39	434	7	441
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	0	0	0	0
Method Demonstrations	20	154	6	160
Celebration of important days	02	109	4	113
Special day celebration				
Exposure visits	1	75	0	75
<b>Total</b>	<b>167</b>	<b>2519</b>	<b>67</b>	<b>2586</b>

### Details of other extension programmes

Particulars	Number
Electronic Media	00
Extension Literature	03
News Letter	01
News paper coverage	14
Technical Articles	00
Technical Bulletins	00
Technical Reports	00
Radio Talks	02
TV Talks	04
Animal health camps (Number of animals treated)	315
Others (pl.specify)	00
<b>Total</b>	<b>339</b>

## PRODUCTION OF SEED/PLANTING MATERIAL

### Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety	Quantity of seed(ctl)	Value (Rs)	Number of farmers
Cereals	Little millet	Sukashema	6.75	15525	5
	Maize	SAT	12.12	20000	01
		Arjun	8.23	9053	01
	Foxtail millet	PS-4	0.25	425	02
	Jowar	Anuradha	2	4200	0
M-35-1		3	6300	0	
Oilseeds	Groundnut	GPBD-4	4.75	22800	10
		GPBD-5	5.20	24960	08
		DH-86	2.50	12000	02
		Chintamani	1.10	5280	02
Procurement		GPBD-4	30.43	146064	10
Pulses	Soybean	JS-335	2.50	7500	01
	Redgram	BSMR-736	7.5	56250	20
	Horsegram	GPM-6	3	6300	01
Commercial crops	Cotton	Bulk	0.75	3000	01
Others	Vermicompost		8	2400	01
<b>Total</b>			<b>98.08</b>	<b>342057</b>	<b>65</b>

### Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety	Number	Value (Rs.)	Number of farmers
Fruits	Sapota	DHS-1	580	23200	20
	Sapota	DHS-2	350	14000	15
Spices	Curry leaf	Suvasini	2600	20800	25
Others(specify)	Tamarind	PKM & SMG	160	4320	10
<b>Total</b>			<b>3690</b>	<b>62320</b>	<b>70</b>

**Production of Bio-Products - Nil**

**Production of livestock and related enterprise materials -Nil**

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	2583	2583	375	176300
Water	2183	2183	358	110550
<b>Total</b>	<b>4766</b>	<b>Max 2583</b>	<b>Max 375</b>	<b>286850</b>

### VIII. SCIENTIFIC ADVISORY COMMITTEE

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

### IX. NEWSLETTER

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

### X. RESEARCH PAPER PUBLISHED

<b>Number of research paper published</b>
12

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

Activities conducted				
No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
-	-	3690	200	50

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