UNIVERSITY OF AGRICULTURAL SCIENCES

DHARWAD

Annual Report

(October, 2005 to September, 2006)

भाकृअनुप
ICAR

of

KRISHI VIGYAN KENDRA
HANUMANAMATTI

Prepared for the

Annual Review Meeting of KVK's of Zone VIII
2005-06

at

Central Plantation Crops Research Institute, Kasaragod, Kerala
(1st–4th November, 2006)

KRISHI VIGYAN KENDRA,

HANUMANAMATTI-581 135

TQ: RANEBENNUR , DT: HAVERI

KARNATAKA STATE

CONTENTS

ANNUAL REPORT

(October 2005 to September. 2006)

1. Name and address of the KVK with Pin code : Krishi Vigyan Kendra,
Hanumanamatti-581 135

a) Telegraphic Address (if any): : Krishi Vigyan Kendra,
Hanumanamatti 581 135
Tq: Ranebennur
Dist : Haveri, State : Karnataka

b) Telephone with STD code

	STD Code	Phone No.
Office	08373	253524
Fax	08373	253524
Residence	08373	262531
Email Address: kvk_haveri@rediffmail.com		
Web site:		

c) Name and Address of the Host Organisation :**University of Agricultural Sciences,**
Krishi Nagar, Dharwad-5

2. Staff Position (as on 30th September 2006)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	P /T	Cat. (SC/ST/ OBC/ Others)
1	Programme Coordinator	Mr. D.S.M. Gowda	Programme Coordinator	Soil water conservation engg.	11025	06.10.94	P	GM
2	Subject Matter Specialist	Dr. C.M. Sajjanar	SMS	Animal Sci.	10750	14.02.97	P	GM
3	Subject Matter Specialist	Dr. S.M. Hiremath	SMS	Horticulture	11025	09.07.02	P	GM
4	Subject Matter Specialist	Dr. K.B.Yadahalli	SMS	Pl. Path.	11025	03.10.03	P	II A
5	Subject Matter Specialist	Dr. Sukanya T.S.	SMS	Agronomy	9100	23.01.06	P	GM
6	Subject Matter Specialist	Dr. Hanumantha Swamy B.C	SMS	Ag. Entomology	9100	03.03.06	P	IIIA
7	**Subject Matter Specialist**	**Vacant**	**SMS**	**Ag. Extn.Edu.**				
8	Programme Assistant	Mr. H.R. Nagaraju	Programme Assistant	Soil Science	8750	02.06.04	T	GM
9	Computer Programmer	Ms. K.N. Rekha	Programme Assistant	Computer Science	8750	02.06.04	T	GM
10	Farm Manager	**Vacant**						
11	Accountant / Superintendent	**Vacant**						
12	Stenographer	Mr. K .T. Beldar	Stenographer	Stenographer	4450	11.04.03	T	SC
13	Driver	Mr. Mahesh L. M	Driver cum Mechanic	Driver cum Mechanic	3000	12.07.06	T	GM
14	Driver	Mr.P. C. Kunbevin	Driver cum Mechanic	Driver cum Mechanic	4575	07.06.98	T	IIA
15	Supporting staff	Mr.K. B. Belakeri	Messenger	Messenger	3300	02.11.98	T	IIA
16	Supporting staff	Mr. C. V. Nelogal	Cook cum care taker	Cook cum care taker	3300	01.07.02	T	GM

3. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
A.	Under Buildings	1100 Sqmt
B.	Under Demonstration Units	-
C.	Under Crops	20
D.	Orchard/Agro-forestry	0.1
E.	Others	-

4. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage						
			Complete				Incomplete		
			Start Date	Completion Date	Plinth area m^2	Cost (lakh)	Start Date	Plinth area	Cost
1.	Administrative building	ICAR		1999	400	27.93			
2.	Farmers Hostel			2004	305	22.63			
3.	Staff Quarters (6)		-	-	-	-	01.10.06	399	39.68
4.	Demo. Units (2)	-	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Model	Cost (Rs.)	Total kms. Run	Present status
Tempo trax	**Judo (**2002)	4.50 lakhs	89726	Good
Motor cycle	**Bajaj CT-100 (**2005)	0.40 lakhs	7422	Good
Motor cycle	**Bajaj CT-100 (**2006)	0.40 lakhs	1282	Good
Tractor and Trailer	**New Holland Ford 3230**	5.00 lakhs	1053	Good

C) Equipments & AV aids

Nature of the equipment	Year of purchase	Cost (Rs)	Present status
Camera with accessories	2001	19,000	Good
Slide Projector	2001	15,500	Good
Over head Projector	2001	19,500	Good
Computer With accessories	2002	80,000	Good
Digital Camera	2005	20,000	Good
Spectrophotometer	2005	40050	Good
Flame Photometer	2005	32040	Good
pH meter	2005	8900	Good
Conductivity bridge	2005	9790	Good
Physical balance	2005	10890	Good
Chemical balance	2005	57000	Good
Water distillation Still	2005	62444	Good
Kjeldahl digestion and distillation (2 sets)	2005	142844	Good
Shaker	2005	47025	Good
Refrigerator	2005	12285	Good
Oven	2005	17228	Good
Hot plate	2005	3046	Good
Grinder	2005	15635	Good
Xerox Machine	2005	52000	Good

5. Description of Agro-climatic Zones and farming situations of the district

Haveri district is agriculturally potential district. It comes under Northern Transitional zone (ZONE-8), which receives on an average 712 mm of rainfall annual, mainly during June to October. The rainfall is received with two peaks, first being in July followed by the second peak in September. Haveri district is known for its chilli and small millets cultivation. Chilli is exported to Kerala for extraction of oleoresin. Haveri, has total geographical area of 4.85 lakh ha. with cultivated area of 3.86 lakh ha., of which 72,000 ha is irrigated (13.5%). Haveri district consists of seven taluks spread over 675 villages . The soils vary from red (65%) to black (35%). Land holding pattern of the district is < 1 ha (32,719), 1-2 ha (60,095), 2-4 ha (48,885), 2-10 ha (19,613) and > 10 ha (2,649).

Rainfall (mm) pattern of different Taluks of Haveri District during -2005-06

Month	Haveri	Byadgi	Hangal	Hirekerur	Ranebennur	Savanur	Siggaon	Total
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	42.3	49.4	60.3	118.2	56.2	31.8	46.4	404.6
May	50.3	30.6	43.54	59.98	59	75.9	39.1	358.42
June	63.2	70.6	172.6	114.3	28.6	88.7	158.9	696.9
July	281.7	348.2	372.6	418.1	226.5	175	265	2087.1
August	144.3	128.4	128.6	132.65	73.8	130.7	147.9	886.35
September	76.9	86	118.43	130.47	58	92.5	154.88	717.18
October	101.8	111.4	76.79	118.57	131.6	136.9	115.8	792.86
November	10.1	0	14	4.45	0	1.6	45.22	75.37
December	0	0	0	0	0	0	0	0
Total	**770.6**	**824.6**	**986.86**	**1096.72**	**633.7**	**733.1**	**973.2**	**859.8257**
Normal	712.2	678.4	885	753.4	571.4	635.6	681.7	702.52

Rainfall (mm) pattern of different Taluks of Haveri District during -2006-07

Months	HVR	Byd	HNG	HKR	RNR	SVN	SHI	Total
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Mar	4.40	0.00	0.00	0.00	23.50	0.00	0.00	**3.99**
Apr	2.80	7.60	0.00	0.00	15.40	5.80	2.00	**33.60**
May	94.80	91.40	162.30	66.82	103.60	94.90	139.95	**753.77**
Jun	172.90	100.20	212.20	149.82	86.90	154.50	123.27	**999.79**
Jul	128.80	134.90	265.20	154.37	44.34	117.70	177.55	**1022.86**
Aug	63.90		152.00	102.30	23.50	55.50	87.77	**484.97**
Sep								**0.00**
Oct								**0.00**
Nov								**0.00**
Dec								**0.00**
Total	**467.60**	**334.10**	**791.70**	**473.31**	**297.24**	**428.40**	**530.54**	**474.70**
Normal	712.20	678.40	885.00	753.40	571.40	635.60	681.70	702.52

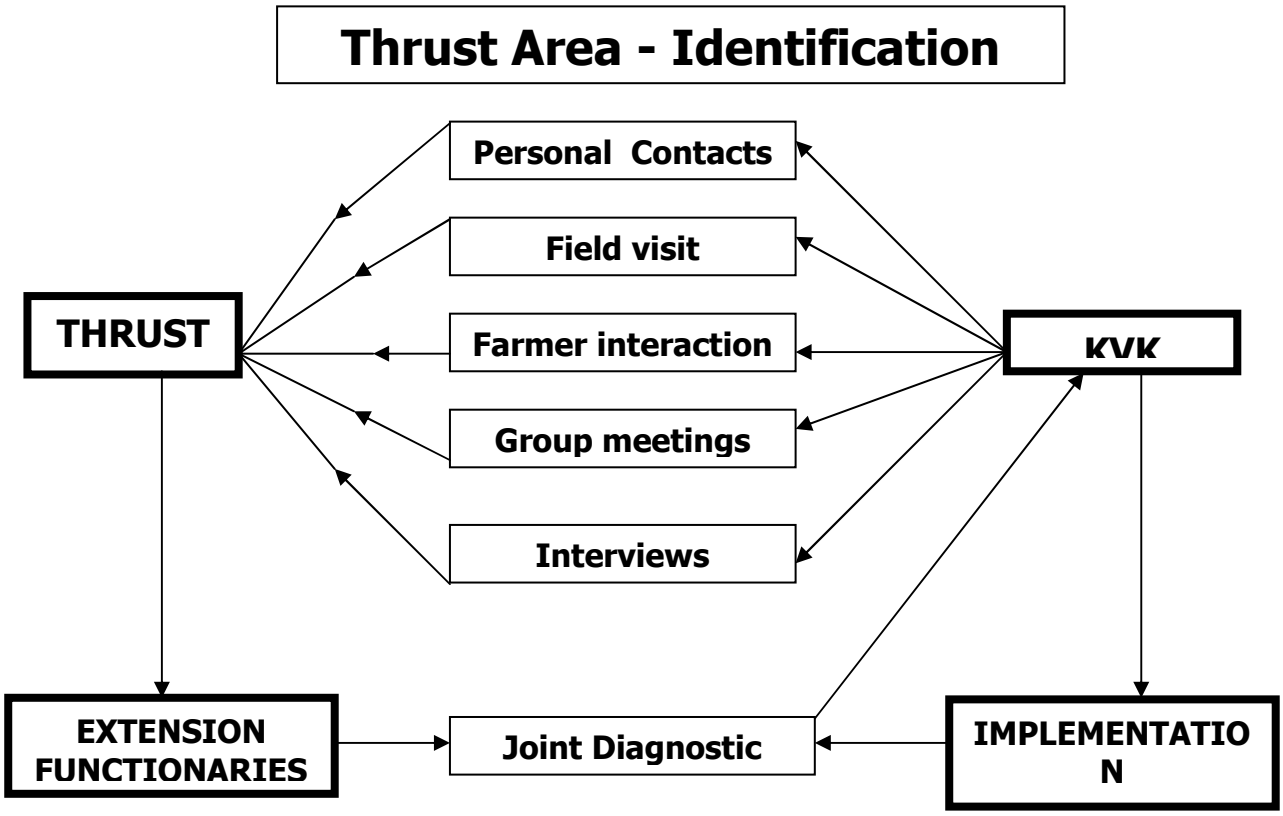
Haveri district in the Northern transition zone receives rainfall predominantly through SW mansoon. The rainfall received during the current *Kharif* season has been in excess of average rainfall, received intensely in short spurts. The average rainfall is also greater considering the usual rainfall. However, acute shortage of rainfall during the past three years, has helped to fill up the empty tanks in the district. Considering highly active mansoon, the Agricultural scenario has improved considerably this year.

6.a). Thrust areas identified through PRA or any other method

1. Popularization of small millets in rainfed crop production system.
2. Empowerment of rural youth / women through skill oriented income generating activities in allied fields.
3. Rain water harvesting with emphasis on ground water recharge.
4. Promotion of organic farming – Vermicompost.
5. Integrated farming system for rainfed ecosystem.
6. Technology dissemination through production and supply of plant and seed materials.
7. Popularization of production technology of mandate crops.
8. Improving the usage of biofertilizer and biopesticide.
9. Popularization of locally available feed resources for livestock.
10. EDP in different farming enterprises.
11. Dairying – Scientific selection, Nutrition, Breeding and health.
12. Value addition through product diversification.

(b) Identification and promotion of thrust areas

- Participatory Rural Appraisal Tools.
- Semi-structured interviews.
- Consultation with various Institutions.
- Brain storming sessions among KVK Scientists.
- Interactive meetings with farmers and farm women and rural youth.
- Triangulation of problem- cause trees with villagers.



Popularization of Small millets in Rainfed production system

Thrust area	Method of identification	Promotion of thrust area
Reduction in farm returns due to drought recurrence	• Rainfall, Yield data • Crop withstand conditions. • Feedback from farmers • Survey	⇘ Drought resistance variety ⇘ Conservation of soil moisture through available natural mulches.
Non availability of quality seeds in small millets	• Germination and viability percentage • Occurrence of seed borne diseases	⇘ Through TL and certified seeds.
Non availability of fodder to livestock during drought years	• Increase in fodder cost.	⇘ Through popularization of small millet varieties like TNAU –63, HMT-100-1 with higher productivity.

Empowerment of rural youth and farm women through skill oriented Income generating activities

Thrust area	Method of identification	Promotion of thrust area
Lack of Income generating activities among rural youth and farm women	• PRA tools • SHG's meetings • Interactive meeting with farmers, farm women and rural youth • discussing with Officials from Developmental departments and NGO's	⇘ Awareness programme / campaign ⇘ EDP ⇘ Skill oriented training programmes ⇘ follow-up service ⇘ establishment of marketing linkages ⇘ providing information regarding government schemes

Production and supply of plant and seed materials

Thrust area	Method of identification	Promotion of thrust area
Non availability of diseases free seeds and seedlings Non availibility of propagation materials of HYV's	• wide spread occurrence of diseases • low productivity • higher diseases incidence	⇘ seed procurement from diseases free area ⇘ seed treatment with chemicals and bio agents ⇘ Procurement of seeds from different sources and their supply to needy farmers at nominal costs.

Promotion of Organic farming - Vermicompost

Thrust area	Method of identification	Promotion of thrust area
Decline in production and productivity of crop	• High incidence of pest and diseases under field condition	⇘ low cost Technology for adoption of Vermicomposting and its utilization in crop production
Deterioration of soil structure and depletion of soil micro flora	• Morphological appearance of soil health condition	⇘ application of bulky organic manures

Promotion of locally available feed resources for livestock

Thrust area	Method of identification	Promotion of thrust area
Non availability of fodder during summer	• Steep rise in fodder price • Procurement of fodder from distant areas of its availability	⇘ Adoption of IFS ⇘ Preparation of nutritive feed through silage ⇘ Stacking of fodder ⇘ Fodder enrichment

Promotion of rainwater harvesting and ground water recharge

Thrust area	Method of identification	Promotion of thrust area
Depletion of ground water resources	• Non availability of water in dug wells • Drying up of open wells • Decrease in irrigated cropped area	↯ Construction of nala bunds check dams ditches etc. ↯ Ground water recharge ↯ Insitu perculation of rain water
Rain water harvesting	• Non availability of water in dug wells • Drying up of open wells • Decrease in irrigated cropped area	↯ Construction of contour bunds ↯ Diversion of rain water to dug wells and open wells ↯ Changes in cropping pattern ↯ Construction of farm ponds ↯ Roof water harvesting

Popularization of production technology of mandate crops.

Thrust area	Method of identification	Promotion of thrust area
Low productivity of groundnut	• Non availability of quality seeds • Improper nutrient management • High Disease prevalence • Plant population	↯ Production of quality seeds ↯ Distribution of quality seeds of HYVs like GPBD-4, TAG-24 and DH-86 through FLD, and sale of seeds. ↯ Seed treatment with *Trichoderma* ↯ Soil amendment with gypsum .
Decline in productivity of Redgram	• Non- Availability of seeds of HYVs • High disease prevalence • Lower seed setting	↯ Supplying seeds of improved varieties like Maruti, Asha through FLD, and sale of seeds.
Popularization of Soybean cultivation	• Meager soybean yields of the district.	↯ Introduction of variety JS-335 and their popularization through FLDs and sale of seeds. ↯ Seed treatment with biocultures.

7. Training Achievements (including sponsored training)

A) ON Campus

Discipline	No.of courses	No.of Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
(A) Farmers & Farm Women								
Crop Production	04	50	01	51	05	01	**06**	**57**
Horticulture	04	59	00	59	05	00	**05**	**64**
Livestock Production and Management	01	03	00	03	00	00	**00**	**03**
Home Science	02	00	17	17	00	02	**02**	**19**
Agril. Engineering	02	31	00	31	01	00	**01**	**32**
Plant Protection	09	129	07	136	15	03	**18**	**154**
Ag. Extension	02	28	00	28	01	00	**01**	**29**
Soil fertility & Management	01	09	00	09	01	00	**01**	**10**
Ag. Entomology	01	15	00	15	03	00	**03**	**18**
TOTAL	**26**	**324**	**25**	**349**	**31**	**06**	**36**	**388**
(B)Rural Youth								
Ag. Entomology	01	28	03	31	03	02	05	**36**
TOTAL	**01**	**28**	**03**	**31**	**03**	**02**	**05**	**36**
(C) Extension Functionaries								
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total (A+B+C)	**27**	**352**	**28**	**380**	**33**	**09**	**41**	**422**

B) OFF Campus

Discipline	No.of courses	No.of Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
(A) Farmers & Farm Women								
Crop Production	09	152	30	182	63	14	**77**	**259**
Horticulture	10	162	48	210	100	23	**123**	**333**
Home Science	12	06	205	211	03	54	**57**	**268**
Agril. Engineering	04	81	26	107	17	04	**21**	**128**
Plant Protection	15	209	71	280	40	13	**53**	**333**
Ag. Extension	07	153	54	207	50	10	**60**	**267**
Soil fertility & Management	06	55	14	69	16	01	**17**	**86**
Ag. Entomology	05	85	08	93	32	03	**35**	**128**
TOTAL	**68**	**903**	**456**	**1359**	**321**	**122**	**443**	**1802**
(B)Rural Youth								
Crop Production	03	61	25	86	09	09	**18**	**104**
Horticulture	01	25	13	38	04	07	**11**	**49**
Home Science	04	09	81	19	04	15	**19**	**109**
Plant Protection	02	53	35	88	04	05	**09**	**97**
Ag. Extension	01	03	30	33	00	02	**02**	**35**
Soil fertility & Management	01	25	13	38	04	07	**11**	**49**
Ag. Entomology	02	51	16	67	07	09	**16**	**83**
TOTAL	**14**	**227**	**213**	**440**	**32**	**54**	**86**	**526**
C) Extension Functionaries								
Crop Production	01	00	25	25	00	10	**10**	**35**
Horticulture	03	21	50	71	05	20	**25**	**96**
Plant Protection	10	253	41	294	53	13	**63**	**657**
Ag. Extension	01	20	10	30	01	01	**02**	**32**
Ag. Entomology	01	16	00	16	01	00	**01**	**17**
TOTAL	**16**	**310**	**126**	**436**	**60**	**44**	**101**	**537**
Grand Total (A+B+C)	**98**	**1440**	**795**	**2235**	**413**	**220**	**630**	**2865**

C) Consolidated table (ON and OFF Campus)

Discipline	No.of courses	No.of Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
(A) Farmers & Farm Women								
Crop Production	13	202	31	233	68	15	**83**	**316**
Horticulture	14	221	48	269	105	23	**128**	**397**
Livestock Production and Management	01	03	00	03	00	00	**00**	**03**
Home Science	14	6	222	228	03	56	**59**	**287**
Agril. Engineering	06	112	26	138	18	04	**22**	**160**
Plant Protection	24	338	78	416	55	16	**71**	**487**
Ag. Extension	9	181	54	235	51	10	**61**	**296**
Soil fertility & Management	07	64	14	78	17	01	**18**	**96**
Ag. Entomology	06	100	08	108	35	03	**38**	**146**
TOTAL	**94**	**1227**	**481**	**1708**	**352**	**128**	**480**	**2188**
(B)Rural Youth								
Crop Production	03	61	25	86	09	09	**18**	**104**
Horticulture	01	25	13	38	04	07	**11**	**49**
Home Science	04	09	81	19	04	15	**19**	**109**
Plant Protection	02	53	35	88	04	05	**09**	**97**
Ag. Extension	01	03	30	33	00	02	**02**	**35**
Soil fertility & Management	01	25	13	38	04	07	**11**	**49**
Ag. Entomology	03	79	19	98	10	11	**21**	**119**
TOTAL	**15**	**255**	**216**	**471**	**35**	**56**	**91**	**562**
C) Extension Functionaries								
Crop Production	01	00	25	25	00	10	**10**	**35**
Horticulture	03	21	50	71	05	20	**25**	**96**
Plant Protection	10	253	41	294	53	13	**63**	**657**
Ag. Extension	01	20	10	30	01	01	**02**	**32**
Ag. Entomology	01	16	00	16	01	00	**01**	**17**
TOTAL	**16**	**310**	**126**	**436**	**60**	**44**	**101**	**537**
Grand Total (A+B+C)	**125**	**1792**	**823**	**2615**	**447**	**228**	**672**	**3282**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title	Duration (days)	No. of Participants			No. of participants employed
				Male	Female	Total	
Childhood education centers	Mismanagement	Establishment and scientific management of early childhood education centers	06	00	23	23	03
Childhood education centers	Mismanagement	Establishment and scientific management of early childhood education centers	06	00	19	19	04
Preparation of Agarabatti	Lack of skills	Agarabatti preparation skills	03	00	17	17	01
Preparation of Soap and detergent	Lack of skills	Soap and detergent productions skills	03	02	13	15	00
Integrated Horticulture	Horticulture Development activities	Integrated Horticulture	05	33	01	34	00

(E) Sponsored Training Programmes

Sl. No.	Title	Discipline	Month	Duration (days)	Client	No. of courses	No.of Participants							Sponsoring Agency
					PF/RY /EF		Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST	Total	
1.	Integrated Horticulture	Horticulture	October	02	PF	01	39	00	00	00	39	00	39	KDAH
2.	Integrated Horticulture	Horticulture	October	02	PF	01	00	00	42	00	42	00	42	KDAH
3.	Vermicomposting	Pl. Protection	December	03	PF	01	03	01	13	05	16	06	22	CEDOK

8. Frontline Demonstrations

1. Oilseeds

a) Details of implementation

Sl. No.	Crop	Year	Season	Area (ha)		No. of farmers/ demonstration		
				Proposed	Actual	SC/ST	Others	Total
1.	Groundnut	2005-06	Kharif	10	10	02	11	13
2.	Soyabean	2005-06	Kharif	10	10	05	20	25
3.	Sunflower	2005-06	Kharif	05	05	03	09	12
4.	Groundnut	2005-06	Rabi	10	10	03	10	13
5.	Sunflower	2005-06	Rabi	05	05	03	09	12
6.	Safflower	2005-06	Rabi	05	05	04	09	13

b) Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)
				Low,medium, high						
				N	P	K				
Groundnut	Kharif	RF	Vertisol & Alfisol				Maize, Sorghum & Sunflower	I week of July	I week of November	750.84
Soya bean	Kharif	RF	Vertisol				Sunflower	II week of June	II week of September	826.79
Sunflower	Kharif	RF	Vertisol & Alfisol				Maize, Groundnut and cotton	II week of July	III week of November	651.28
Groundnut	Rabi	RF	Vertisol & Alfisol				Maize, Sorghum & Sunflower	Last week of December	II week of April	
Sunflower	Rabi	RF	Vertisol & Alfisol				Jawar, Groundnut Brinjal,and cotton	I week of September	II week of January	
Safflower	Rabi	RF	Red and Medium black				Maize, Ragi, Sorghum, Cotton, Paddy, Sunflower	I fortnight of October	II fortnight of January	

c) Crop performance

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
					Highest	Lowest	Average	Local check		Demo	Local check
1.	Groundnut	GPBD-4	13	10	24.5	21.2	23.4	18.5	26.5	9245	8350
2.	Soyabean	JS-335	25	10	29.25	14	15.83	12.20	29.75	6098	5175
3.	Sunflower	KBSH-1	12	05	11.8	9.6	10.85	8.5	27	6443	5400
4.	Groundnut	GPBD-4	13	10	17.5	15.9	16.90	12.80	24.26	8776	7197
5.	Sunflower	KBSH-1	12	05	8.75	7.00	7.75	6.60	14.84	4363	4295
6.	Safflower	Annigeri-1	13	05	7.6	6.2	6.9	5.62	18.55	2334	2156
Total			**88**	**45**	**99.4**	**73.9**	**81.63**	**64.22**	**140.9**	**37259**	**32573**

2. Pulses

a) Details of implementation

Sl. No.	Crop	Year	Season	Area (ha)		No. of farmers/ demonstration		
				Proposed	Actual	SC/ST	Others	Total
1.	Red gram	2005-06	Kharif	10	10	04	21	25
2.	Green gram	2005-06	Kharif	05	05	03	07	10
3.	Black gram	2005-06	Kharif	05	05	03	10	13
4.	Bengal gram	2005-06	Rabi	04	04	03	09	12

b) Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil Low,medium, high			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)
				N	P	K				
Red gram	Kharif	RF	Alfisols andVetisols				Sunflower	II week of July	II Week of January	860
Green gram	Kharif	RF	Alfisols andVetisols				Sunflower, Sorghum, Cotton,Sunflower, Bengal gram, Jowar	II week of July	II Week Of October	640.50
Black Gram	Kharif	RF	Alfisols and Vetisols				Rabi Jowar, Bengal gram and cotton	II Fortnight of June	II fortnight Of October	740.06
Bengal gram	Rabi	RF	Red and medium black				Maize, Ragi, Sorghum, Cotton , Paddy, Sunflower	I fortnight of November	II fortnight Of February	

c) Crop performance

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
					Highest	Lowest	Average	Local check		Demo	Local check
1.	Red gram	Asha (ICPL-87119)	25	10	11.8	7.0	8.94	7.05	26.24	4931	3800
2.	Green gram	Sel-4	10	05	3.8	2.3	2.57	2.00	28.50	1661	1380
3.	Black Gram	TAU-1	13	05	5.6	4.6	5.1	3.95	29.11	2238	1968
4.	Bengal gram	Bheema	10	04	8.0	6.5	7.36	6.1	17.12	3874	3979
Total			**58**	**24**	**29.2**	**20.4**	**23.97**	**19.1**	**100.97**	**12704**	**11127**

3. Cotton

a) Details of implementation

Sl. No.	Crop	Year	Season	Area (ha)		No. of farmers/ demonstration		
				Proposed	Actual	SC/ST	Others	Total
1.	Cotton	2005-06	Kharif	04	04	03	07	10
2.	Cotton	2005.06	Rabi	08	08	05	05	10

b) Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)
				Low,medium, high						
				N	P	K				
Cotton	Kharif	RF	Medium black & deep black soil				Soyabean, Groundnut, Sunflower	II week of June	Last week of December	826
Cotton	Rabi	RF	Medium black & deep black soil				Jower, Maize	III eek of October	First Week of April	226

c) Crop performance

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
					Highest	Lowest	Average	Local check		Demo	Local check
1.	Cotton	DHH-11	10	04	15.60	11.60	13.70	10.32	24.89	6055	7085
2.	Cotton	DDHC-11	10	08	7.2	6.97	7.08	4.99	28.41	3342	3580
Total			**20**	**12**	**22.8**	**18.57**	**20.78**	**15.31**	**53.3**	**9397**	**10665**

(C) Performance of FLD in the district

i) Oilseeds

Crop	:	**Groundnut**	Season	:	Kharif
Sowing Date	:	I week of July	Harvesting Date	:	I week of November
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Maize, Sorghum & sunflower
Status of National Productivity Level	:	988 kg/ha	Rainfall Distribution	:	651.28

Variety	No. of Farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
GPBD-4	13	10	24.5	21.2	23.4	18.5	26.5	9245	8350

Crop	:	**Soyabean**	Season	:	Kharif
Sowing Date	:	III week of June	Harvesting Date	:	II week of September
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Sunflower
Status of National Productivity Level	:	1089 kg/ha.	Rainfall Distribution	:	826.79

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
JS-335	25	10	29.25	14	15.83	12.20	29.75	6098	5175

Crop	: **Sunflower**	Season	:	Kharif
Sowing Date	: II week of July	Harvesting Date	:	III week of November
Situation	: Rainfed	District	:	Haveri
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Maize, Groundnut& cotton
Status of National Productivity Level	: 539 kg/ha.	Rainfall Distribution	:	651.28

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
KBSH-1	12	05	11.8	9.6	10.85	8.5	27	6443	5400

Crop	: **Groundnut**	Season	:	Rabi
Sowing Date	: Last week of December	Harvesting Date	:	II week of April
Situation	: Rainfed	District	:	Haveri
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Maize, Sorghum & Sunflower
Status of National Productivity Level	: 988 kg/ha.	Rainfall Distribution	:	

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
GPBD-4	13	10	17.5	15.9	16.90	12.80	24.26	8776	7197

Crop	: **Sunflower**	Season	:	Rabi	
Sowing Date	: I fortnight of September	Harvesting Date	:	I fortnight of January	
Situation	: Rainfed	District	:	Haveri	
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Jawar, Groundnut, Brinjal and Tomato	
Status of National Productivity Level	: 539 kg/ha.	Rainfall Distribution	:		

Variety	**No. of farmers**	**Area (ha)**	**Demo yield (q/ha)**				**Increase in yield (%)**	**Cost of additional cash inputs (Rs./ha)**	
			Highest	**Lowest**	**Average**	**Local check**		**Demo**	**Local check**
KBSH-1	12	05	8.75	7.00	7.75	6.60	14.84	4363	4295

Crop	: **Safflower**	Season	:	Rabi	
Sowing Date	: I fortnight of October week of June	Harvesting Date	:	II Fortnight of January	
Situation	: Rainfed	District	:	Haveri	
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Maize, Rabi, Sorghum, Cotton, Paddy, Sunflower	
Status of National Productivity Level	:	Rainfall Distribution	:		

Variety	**No. of farmers**	**Area (ha)**	**Demo yield (q/ha)**				**Increase in yield (%)**	**Cost of additional cash inputs (Rs./ha)**	
			Highest	**Lowest**	**Average**	**Local check**		**Demo**	**Local check**
Annigeri-1	13	05	7.6	6.2	6.9	5.62	18.55	2334	2156

II) Pulses

Crop	:	**Red gram**	Season	:	Kharif
Sowing Date	:	II week of July	Harvesting Date	:	II week of January
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Sunflower
Status of National Productivity Level	:	690 kg/ha.	Rainfall Distribution	:	860 mm

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
Asha (ICPL-87119)	25	10	11.8	7.0	8.94	7.05	26.24	4931	3800

Crop	:	**Green gram**	Season	:	Kharif
Sowing Date	:	II week of July	Harvesting Date	:	II week of October
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Cotton , Sorghum, Sunflower, Bengal gram, Jowar
Status of National Productivity Level	:	426 kg/ha.	Rainfall Distribution	:	640.50

Crop	Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo	Local check
Green gram	Sel-4	10	05	3.8	2.3	2.57	2.00	28.50	1661	1380

Crop	: **Black gram**	Season	:	Kharif
Sowing Date	: II fortnight of June	Harvesting Date	:	II Fortnight of October
Situation	: Rainfed	District	:	Haveri
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Rabi Jowar, Bengal gram and Cotton
Status of National Productivity Level	: 425 kg/ha.	Rainfall Distribution	:	740.06

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local heck
TAU-1	13	05	5.6	4.6	5.1	3.95	29.11	2238	1968

Crop	: **Bengal gram**	Season	:	Rabi
Sowing Date	: I fortnight of November	Harvesting Date	:	II Fortnight of February
Situation	: Rainfed	District	:	Haveri
Agro-climatic Zone	: Zone-8	Previous Crop Pattern	:	Maize, Ragi, Sorghum, Cotton, Paddy and Sunflower
Status of National Productivity Level	: 623 kg/ha.	Rainfall Distribution	:	

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional ash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
Bheema	10	04	8.0	6.5	7.36	6.1	17.12	3874	3979

III) Cotton

Crop	:	**Cotton**	Season	:	Kharif
Sowing Date	:	II week of June	Harvesting Date	:	Last week of December
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Soyabean, Groundnut, Sunflower, Sorghum And Maize
Status of National Productivity Level	:	307 kg.lint/ha.	Rainfall Distribution	:	826 mm

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
DHH-11	10	04	15.60	11.60	13.70	10.32	24.89	6055	7085

Crop	:	**Cotton**	Season	:	Rabi
Sowing Date	:	II and III week of October	Harvesting Date	:	First week of April
Situation	:	Rainfed	District	:	Haveri
Agro-climatic Zone	:	Zone-8	Previous Crop Pattern	:	Soyabean, Groundnut, Sunflower, Sorghum And Maize
Status of National Productivity Level	:		Rainfall Distribution	:	226 mm

Variety	No. of farmers	Area (ha)	Demo yield (q/ha)				Increase in yield (%)	Cost of additional cash inputs (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo	Local check
DDHC-11	10	08	7.2	6.97	7.08	4.99	28.41	3342	3580

D) Farming situation and results of Demonstration

i) Oilseeds

Sl. No.	Agro-Climatic Zone	Dist.	Soil Type	Crop & Variety	Date of Sowing	Date of Harvesting	No. of Demon.	Area (ha.)	Highest Yield q/ha	Avg. Yield q/ha.	Cost input (Rs.)	Gross Return (Rs.)	Net Return (Rs.)
1.	Zone - 8	Haveri	Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
2.			Vertisol and alfisol	Soyabean JS-335	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
3.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
4.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
5.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
6.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
7.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
8.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
9.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430
10.			Vertisol and alfisol	Groundnut GPBD-4	I week of July	I week of November	13	10	24.50	23.40	9245	35100	23430

ii) Pulses

Sl. No.	Agro-Climatic Zone	Dist.	Soil Type	Crop & Variety	Date of Sowing	Date of Harvesting	No. of Demon.	Area (ha.)	Highest Yield q/ha	Avg. Yield q/ha.	Cost input (Rs.)	Gross Return (Rs.)	Net Return (Rs.)
1.	Zone - 8	Haveri	Vertisol and alfisol	Redgram (ICPL-87119)	II Week of July	II Week of January	25	10	11.8	8.90	4931	16020	10302
2.			Vertisol and alfisol	Greengram (Sel-4)	II Week of July	II Week of October	10	5.0	3.0	2.57	1661	4497.50	2636.50
3.			Vertisol and alfisol	Black gram (TAU-1)	II Fort night of June	II Fort night of October	13	05	5.6	5.1	2238	9125	5909

iii) Cotton

Sl. No.	Agro-Climatic Zone	Dist.	Soil Type	Crop & Variety	Date of Sowing	Date of Harvesting	No. of Demon.	Area (ha.)	Highest Yield q/ha	Avg. Yield q/ha.	Cost input (Rs.)	Gross Return (Rs./ Acre)	Net Return (Rs./ Acre)
1.	Zone - 8	Haveri	Vertisol and alfisol	Cotton DHH-11	II- Week of June	Last week of December	10	10	15.60	13.74	6055	13422	11000
2.			Vertisol and alfisol	Cotton DDHC-11	II- Week of October	First week of April	10	20	7.2	6.97	3342	5522	4185

E) Analytical Review of Component demonstrations

I. Oil Seeds

Crop	Season	Farming situation	Component	Technical intervention	Avg. yield (q/ha)	Local Check (q/ha)	Percentage increase in productivity over local check
Groundnut	*Kharif*	Rainfed	1. Seed/ variety	Improved variety GPBD-4	23.4	18.5	26.50
			2. Fertilizer Management	1. RDF –25 : 50 : 25 2. Gypsum application - 500 kg /ha			
			3. Plant Protection	Seed treatment with *Trichoderma* 4 g/kg seed			
Soybean	*Kharif*	Rainfed	1. Seed/ variety	Improved variety JS-335	15.83	12.20	29.75
			2. Plant Protection	Rust management with Contaf @ 1ml/lt.			
			3. Fertilizer Management	1.RDF – 25:35:25 2.Urea Spray (2%) at 50% Flowering. 3. $ZnSO_4$ @ 12 kg/ha.			
Sunflower	*Kharif*	Rainfed	1. Seed/ variety	Improved variety KBSH-1	10.5	8.5	27
			2. Fertilizer Management	1.RDF – 35:50:35 2.Boron spray @ 0.2% at flowering			
			3. Plant Protection	Seed treatment with imidacloprid @ 5 gm/kg seed for Necrosis Management			
			4. Cultural practices	Wider spacing 90x60 cm			
Groundnut	*Rabi*/ Summer	Irrigated.	1. Seed/ variety	Improved variety GPBD-4	16.9	12.8	24.26
			2. Fertilizer management	1.RDF – 25:50:25 2.Gypsum application – 500 kg/ha			
			3. Plant Protection	Seed treatment with *Trichoderma* @ 4 gm/kg seeds			
Sunflower	*Rabi*/ Summer	Rainfed	1. Seed/ variety	Improved variety KBSH-1	7.75	6.60	14.84
			2. Fertilizer Management	RDF –35: 50 : 35			
			3. Plant Protection	Seed treatment with Imidacloprid @5g/kg			

Safflower	*Kharif*	Rainfed	1. Seed/ variety	Improved variety Annigeri-1	6.9	5.62	18.55
			2. Fertilizer Management	1.RDF – 35:50:35			
			3. Plant Protection	2.Boron spray @ 0.2% at flowering Seed treatment with imidacloprid @ 5 gm/kg seed for Necrosis Management			
			4. Cultural practices	Wider spacing 90x60 cm			

II. Pulses

Crop	Season	Farming situation	Component	Technical intervention	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Redgram	*Kharif*	Rainfed	1. Seed/ variety	Improved variety Asha (ICPL- 87119)	8.90	7.05	26.24
			2. Fertilizer Management	RDF – 25 : 50 : 00			
			3. Plant Protection	1. Seed treatment with *Trichoderma* @ 4 gm/kg seed. 2. IPM practices			
Greengram	*Kharif*	Rainfed	1. Seed/ variety	Improved variety S-4	2.57	2.00	28.5
			2. Fertilizer Management	RDF – 25:50: 00			
			3. Plant Protection	1.Powdery mildew management with Bavistin @ 1g/lt. 2.Control of rust with mancozeb @ 2 g/L.			
Blackgram	*Kharif*	Rainfed	1. Seed/ variety	Improved variety TAU-1	5.1	3.95	29.11
			2. Plant Protection	1.Powdery mildew management with Bavistin @ 1 g/lt. 2.Control of rust with mancozeb @ 2 g/L.			
			3. Fertilizer Management	INM –RDF- 25 : 50 :00			
Bengalgram	*Rabi*/ Summer	Irrigated	1. Seed/ variety	Improved variety Bheema	7.36	6.1	17.12
			2. Fertilizer Management	RDF– 25:50:00			
			3. Plant Protection	1. *Trichoderma* seed treatment @ 4 g/kg 2. Control of pod borer with malathion			
			4. Cultural practice	Nipping at 30-40 DAS			

(F) Technical Feedback on the demonstrated technologies

1. Nipping in Redgram increased yields due to increased number of lateral branches.
2. Demonstrated improved varieties had greater growth and yield attributes.
3. 2% Urea spray in Soyabean increased seed setting and yields.
4. $ZnSO_4$ application increased yields in Oil seed crops
5. Boron spray increased yield levels in Sunflower.

(G) Farmers' reactions on specific technologies

The farmers have expressed favourable opinion regarding the following technologies

1. DH-86, TAG-24 and GPBD-4 varieties of Groundnut yield better than local cultivars.
2. Recommended Plant population in groundnut increased yields.
3. Application of Organic materials and Vermicompost to pulse crops, increased the yield and improved the soil health.
4. Seed treatment with *Trichoderma* in pulses and oil seeds, helped to control seed and soil borne fungal diseases.
5. Nipping in Bengalgram, Increased number of lateral branches and hence the yield.
6. Wider spacing in sunflower (90 x 60) helped for equitable and sufficiency of resources to each plant.
7. Urea spray (2%) at 50 % flowering stage in soybean increased yields.

(H) Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organised	Date	Number of participants
1	**Field days**	05	08.12.05	75
			28.12.05	80
			23.02.206	70
			07.09.06	85
2	**Farmer's Training**	04	05.06.06	19
			16.06.06	25
			17.06.06	25
			16.06.06	10

(I) Results of FLDs Cereals, Horticultural Crops.

a) Results of FLDs Cereals

SL. No.	Season & Year	Crop/ Enterprise	Area (ha)		No.of farmers/ demo.
			Sanctioned	Implemented	
1.	Rabi/Summer 2005-06	Cow pea	10	10	17
2.	Kharif 2005-06	Little millet	10	5.60	07
3.	Kharif 2005-06	Foxtail millet	10	09	13
4.	Kharif 2005-06	Finger millet	10	2.40	03
		Total	**40**	**27**	**48**

b) Results of FLDs Horticultural Crops

SL. No.	Season & Year	Crop/ Enterprise	Area (ha)		No.of farmers/ demo.
			Sanctioned	Implemented	
1.	Kharif 2005-06	Zinger	1.6	1.60	08
2.	Kharif 2005-06	Turmeric	1.6	1.60	08
3.	Kharif 2005-06	Brinjal	02	02	05
4.	Kharif 2005-06	Tomato	02	02	05
5.	Kharif 2005-06	Garlic	02	02	10
6.	Kharif 2005-06	Chilli	02	02	10
7.	Kharif 2005-06	Aster	01	01	08
8.	Kharif 2005-06	Chrysanthemum	03	03	08
9.	Kharif 2005-06	Cabbage	2.5	2.5	05
10.	Kharif 2005-06	Onion	02	02	10
11.	Kharif 2005-06	French bean	05	05	10
TOTAL			**24.7**	**24.7**	**87**

(J) Performance of FLDs Cereals, Horticultural Crops .

a) Performance of FLDs Cereals

SL. No.	Crop/ Enterprise	Variety	No.of farmers	Area (ha)	Yield (q/ha)				Increase in yield %	Additional cost (Rs./ha)	
					Demonstration			Local check		Demo.	Local check
					Highest	Lowest	Average				
1.	Cow pea	C152	25	10	7.5	5.5	6.5	4.0	25	11700	1600
2.	Little millet	Sukshema	07	5.60	17.0	15.5	16.1	13.3	21	2470	2400
3.	Foxtail millet	HMT-100-1	13	09	18.5	16.5	17.8	14.20	25.50	2184	1850
4.	Finger millet	GUP-28	03	2.40	21.2	19.8	20.5	16.80	22	2650	2400
Total			**48**	**27**	**56.7**	**51.8**	**54.4**	**44.3**	**68.5**	**7304**	**6650**

b)Performance of FLDs Horticultural Crops

Sl. No.	Crop/ Enterprise	Variety	No.of farmers	Area (ha)	Yield (q/ha)				Increase in yield %	Additional cost (Rs./ha)	
					Demonstration			Local check		Demo.	Local check
					Highest	Lowest	Average				
1.	Ginger	Wyanad	08	1.60	9.6	6.4	7.8	6.4	21.88	6706	6000
2.	Turmeric	Rajapuri	08	1.60	4.6	3.6	4.2	2.3	45.23	19450	12250
3.	Brinjal	Malapur	05	02	24.50	19.50	21.4	16.5	29.36	12000	11000
4.	Tomato	DMPT-1	05	02	13.5	10.9	12.3	8.9	38.2	15685	13850
5.	Garlic	Local	10	02	6.5	4.8	5.45	4.0	36	21590	19000
6.	Chilli	HCH-9646	10	02	11.6	7.6	9.56	7.1	34.65	21305	21000
7.	Aster	Phule purple, Kamini	08	01	5.2	4.7	4.95	3.8	30.26	13544	12900
8.	Chrysanthemum	Improved IIHR HYV	08	03	10.11	9.6	10.15	7.7	31.8	53881	5100
9.	Cabbage	Private hybrid	05	2.5	18.2	12.8	16.36	12.4	31.93	16302	15500
10.	Onion	Araka kalyan	10	02	24.3	18	20.9	15.8	32.2	16575	14800
11.	French bean	Araka komal	10	05	5.1	4	4.87	3.8	28.15	10213	9800
Total			**87**	**24.7**	**133.21**	**101.9**	**117.94**	**88.7**	**359.66**	**207251**	**141200**

1. **Other Demonstrations : Nil**

9. Results of On Farm Testing

a) Number of on farm trails

Crop/ enterprise	Varietal/ feed evaluation	Nutrient/ feed management	Cropping system	Zero tillage	Weed management	Insect/ disease management	Total
Vegetables		01			01	01	**03**
Fruits & flowers						02	**02**
Total		**01**			**01**	**03**	**05**

b. Results of on farm trials

Sl. No.	Crop/ enterprise	Farming situation	Problem identified	Title of OFT	Technology tested	*Production per unit
1.	**Onion**	Rainfed	Weed Management	Integrated weed management in onion	a)Traditional practice **T_1 -**Farmers practice	17.88
					b)Improved practice **T_2 -RPP** (Butachlor 50 EC (2 lt in 1000 lt/ha)	20.57 (15.00%)
					c)Refined practice **T_3 -Alternate Practices** (Oxyfluorfen 23.5% EC (1.1 lt in 1000 ltrs/ha.))	22.69 (26.00%)
2.	**Cabbage**	Rainfed	Nutrient management	Micronutrient management in Cabbage	a)Traditional practice **T_1 -Farmers practice** (DAP-75 kg/Ac+2 tractor load of FYM)	29.69
					b)Improved practice **T_2 -RPP Recommended Practice** (FYM 25 t/ha + 150 : 100 : 125 NPK kg/ha)	33.85 (14.01%)
					c)Refined practice **T_3 Alternate practice** (FYM 25 t/ha RDF- 150 : 100 : 125 NPK kg/ha +1.50 t/ha GOT)	39.25 (32.20%)

3.	**Tomato**	Rainfed	Fruit Borer	**Management of Tomato Fruit borer, *Helicoverpa armigera* (Hubner)**	a)Traditional practice **T_1 -Farmers practice**	8.42
					b)Improved practice **T_2 -RPP Recommended Practice** (Carboryl (4g/l)/ Endosulfan (2ml/l)/ Fenvelerate (0.5ml/l)) Spraying of Dimethoate @ 1.7 ml/ltr	10.30 (22.33%)
					c)Refined practice **T_3 Alternate practice** Spinosad 48 SC (0.1 ml/ltr)	11.10 (31.83%)
4.	**Chrysanthemum**	Rainfed	**Alternaria leaf blight**	**Management of Alternaria leaf blight of Chrysanthemum Alternaria chrysanthemi**	a)Traditional practice **T_1 -Farmers practice**	6.90
					b)Improved practice **T_2 -RPP Recommended Practice** Spraying of Mancozeb (0.2%)	8.40 (21.73%)
					c)Refined practice **T_3 Alternate practice** Spraying of Propiconazole (0.1%)	9.30 (34.78%)
5.	**Bhendi**	Rainfed	**Yellow Vein Mosaic**	**Management of Yellow Vein Mosaic of Okra (Bhendi)**	a)Traditional practice **T_1 -Farmers practice**	4.90
					b)Improved practice **T_2 -RPP Recommended Practice** Spraying of Dimethoate @ 1.7 ml/ltr	5.85 (19.38)
					c)Refined practice **T_3 Alternate practice** a) Seed treatment with imidacloprid 70 WP @ 5 g 1kg seeds b) Spraying & Imidacloprid 50 SL @ 0.25 ml /ltr	6.60 (34.69)

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

Date of Start : 2005

Sl. No.	Name of the Author	Year of Publication	Title of the News letter	Volume No./ Issue No.	Page No.	No. Copies
1.	KVK, Scientist	2006 (Qutrly)	KVK News Letter (K) (January – April)	Vol.-2/ I	04	200
2.			KVK News Letter (K) (May – August)	Vol.-2/2	UP	200
3.			KVK News Letter (K) (September- December)	Vol.-2/3	-	-

(B) Literature developed/published

A. Research papers : 40 Numbers

Sl.No	Title	Authors name
1.	Value addition of papaya through processing – A case study in `Karnataka	S. M. Hiremath, S.V. Halakatti D.S.M. Gowda H.R.Nagaraju
2.	Diversification of spice products through value addition – A case study of Kabbnur industries of Byadagi.	S.V. Halakatti S. M. Hiremath D.S.M. Gowda H.R.Nagaraju
3.	Water Users Cooperative Societies for Sustainable and Profitable Agricultural Production	D.S.M. Gowda, S. M. Hiremath R. A. Budihal
4.	Channabasappa Kombli- An Enthusiastic Jalayodha of North Karnataka	S. V. Halakatti, D.S.M. Gowda, S. M. Hiremath R. A. Budihal
5.	Soil and water conservation through Sujal watershed development programme in Karnataka	D.S.M. Gowda S. M. Hiremath S. V. Halakatti H. R. Nagaraju
6.	Enhancement of Irrigation potential and its efficient utilization through drip irrigation in fruit crops – A case study.	S. M. Hiremath H. R. Nagaraju D.S.M. Gowda
7.	Innovative efforts in sprinkler irrigation system – A case study in Haveri district of Karnataka.	S.M.Hiremath H.R. Nagaraju K.B.Yadahalli D.S.M. Gowda
8.	Quality parameters of paprika (Capsicum annuum L.) as influenced by provinces and production practices	S.M. Hiremath N.Basaraja P.W. Basarkar
9.	Response of Paprika to location, spacing and fertilizer levels on its yield and yield attributes.	S.M. Hiremath N. Basaraja P.R. Dharmatti
10.	PRA for Natural Resource Management – A critical Study in North Karnataka	S. V. Halakatti D.S.M. Gowda K.B. Yadahalli R. A. Budihal
11.	Constraints in Adoption of Water Harvesting Technologies	S. V. Halakatti D.S.M. Gowda S.M. Hiremath R. A. Budihal,

12.	Constraints in Adoption of Watershed Management Practices in North Karnataka.	S. V. Halakatti D.S.M. Gowda R. A. Budihal
13.	Establishment of Sustainable Mango Orchard by *In-situ* Grafting-A Boon for Small and Marginal Farmers in Rainfed Eco-system.	Hiremath, S.M. Halakatti,S.V. Gowda, D.S.M
14.	Integrating Agro-horticulture and aniamal husbandry for the benefit of rural poor.	Hiremath, S.M. Kusagur, P.V. Sajjan, C.M. Gowda D.S.M.
15.	Copper mine ore waste – a potential micronutrient resource for cole crops	Hiremath, S.M. Nagaraju, H.R. Kusagur, P.V. Gowda,D.S. M.
16.	Integrated Farming System Means to achieve Sustainable economic returns for Small and Medium Farmers	Gowda,D.S.M. Hiremath,S.M. Kusagur,P.V. Yadahalli,K.B
17.	Effect of pH, temperature and relative humidity on grown and development of *Ceato eysis paradoxa*	K.B.Yadahalli, S.S.Adivar H.R. Nagaraju
18.	Sugarcane sett rot development as influenced by Soil moisture and status of soil microflora.	K.B.Yadahalli S.S.Adivar, Srikant K H.R. Nagaraju
19.	Integrated management of pine apple disease of sugarcane.	K.B.Yadahalli S.S.Adivar H.R. Nagaraju
20.	Sugarcane sett rot incidence in northern Karnataka	K.B.Yadahalli H.R. Nagaraju, D.S.M. Gowda S.M.Hiremath
21.	Management of purple blotch of onion	K.B.Yadahalli H.R. Nagaraju D.S.M. Gowda S.M.Hiremath,
22.	Management of early blight of tomato	K.B.Yadahalli H.R. Nagaraju D.S.M. Gowda S.M.Hiremath
23.	Evaluation of selected cultivars of Chrysanthamum to Alternaria leaf spot	S.M.Hiremath K.B.Yadahalli H.R. Nagaraju D.S.M. Gowda
24.	Survey of post harvest losses of onion in Haveri District of Northern Karnataka	S.M.Hiremath K.B.Yadahalli B.L Dalwai D.S.M. Gowda
25.	Screening of China Aster Genotypes against Alternaria leaf sapot diseases under natural conditions	S.M.Hiremath K.B.Yadahalli K.Prashanth D. S.M. Gowda
26.	A study on the information consultancy pattern of guava growers of Northern Karnataka.	S. V. Halakatti S.M. Hiremath D. S. M.Gowda R.A. Budihal H. R. Nagaraju

27.	An Analysis of Harvesting and Marketing of Guava in North Karnataka	S. V. Halakatti H. R. Nagaraju D. S. M.Gowda R.A. Budihal
28.	Constraints in adoption of improved production technology of Guava in Northern Karnataka.	S.M. Hiremath H. R. Nagaraju S. V. Halakatti D. S. M.Gowda
29.	Effect of growth regulators on guava air layering	S.M. Hiremath D.S.M.Gowda R.A. Budihal
30.	Standardization of inoculation techniques for *C.paradoxa*, the incitant of sugarcane sett rot.	K. B. Yadahalli S. S. Adiver H. R. Nagaraju
31.	*Ceratocystis paradoxa* associated mycotoxin- deterring bud germination in sugarcane.	K. B. Yadahalli S. S. Adiver H. R. Nagaraju
32.	Influence of ' C' and ' N ' sources on growth and development of *C. paradoxa* a casual organism of sugarcne sett rot.	K. B. Yadahalli S. S. Adiver H. R. Nagaraju
33.	Isozyme pattern of peroxidse and polyphenoloxidase of isolates of *Certocystis paradoxa*	K. B. Yadahalli P. V. Kusagur D. S. M. Gowda R. A. Budihal
34.	Screening of sugarcane cultivars for sett rot disease of sugarcane	K. B. Yadahalli P. V. Kusagur D. S. M. Gowda R. A. Budihal
35.	Horticulture Based Integrated Farming System approach to Improve Socio-Economic Status of the Small and Marginal Farmers	S. M. Hiremath P. V. Kusagur D. S. M. Gowda C.M. Sajjanar
36.	Front Line Demonstration of Onion- An Effective Extension Method for Technology Transfer	S. M. Hiremath D. S. M. Gowda R. A. Budihal.
37.	Product Diversification of Papaya - A Case Study in Karnataka	S. M. Hiremath S.V. Halakatti D.S.M. Gowda.
38.	Integrated Farming System – means to achieve Sustainable economic returns for Small and Medium Farmers.	D.S. M. Gowda S.M. Hiremath P.V.Kusagur K.B.Yadahalli
39.	IFS Demonstrations- an approach for sustainable development	S. M. Hiremath D. S. M. Gowda P.V. Kusagur H.R. Nagaraju R. A. Budihal

B. Technical Reports : Nil

C. Technical bulletins : 4 Numbers

Sl.No	Title	Authors name
1.	Improved Cultivation practices in Onion	S.M. Hiremath D.S.M. Gowda S.V. Halakatti
2.	Improved Cultivation practices in Mango	S.M. Hiremath D.S.M. Gowda
3.	Improved Cultivation practices in Flower for Ranebennur Taluk	S.M. Hiremath D.S.M. Gowda
4.	Improved Cultivation practices in Flower for Bydagi Taluk	S.M. Hiremath D.S.M. Gowda

D. Popular articles : 13 Numbers

Sl.No	Title	Authors name
1.	Shevantigeya Pramukha rogagal nirvahane	K.B.Yadahalli, S. L.Patil
2.	Tengina anabe roga niyantrana	
3.	Tomato belegararige marakavagiruva taspho nanjanu roga	
4.	Arishinada berulla kanda (Raijom kole roga nirvahane	
5.	Karimenasina nidhana soragu roga niyantrana	
6.	Kitta nasakavagi bevu raitara anubhava	
7.	Shenga roga niyantrana krama	K.B.Yadahalli H.R. Nagaraju D.S.M. Gowda
8.	Improved Production Technology of Groundnut	Sukanya T.S. S.V. Halakatti D.S.M Gowda
9.	Distillery effluents use in Agriculture	Sukanya T.S. S.M. Hiremnath D.S.M. Gowda
10.	Soil tests and its uses.	Sukanya T.S. H.R. Nagaraju
11.	Integrated weed control	Sukanya T.S.
12.	Bio pesticide : Neem	Sukanya T.S.
13.	Multiple uses of pulses	Sukanya T.S.

E. Extension literature : Nil

F. Leaflets : 08

Sl.No	Title	Authors name
1.	Raitar Kalpavruksha- Honge	D.S.M. Gowda
2.	Krishi Aranyakkagi – Teak	D.S.M. Gowda
3.	Jaivik Indhankkagi – Jatropha	D.S.M. Gowda
4.	Hasirele Gobbarakkagi – Glyrisidia	D.S.M. Gowda
5.	Improved cultivation practices for Chrysanthemum	S.M.Hiremath
6.	Improved cultivation practices for Aster	S.M.Hiremath
7.	Improved cultivation practices for Onion	S.M.Hiremath
8.	People's participation in watershed development	S.V. Halakatti

11. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

1. Sri Shivappa Basappa Hadimani

Sri Shivappa Basappa Hadimani aged 60 years, resident of Magod village of Ranebennur taluka of Haveri district, he had education only upto V^{th} std. His major source of in come is through agriculture. He is head of the joint family constituting a total of 20 members, with land holding of 27 acres, of which 5 ha of land in rainfed.

Before in his land he was following monocropping system, growing crops like sorghum local, little and foxtail millet, maize, sunflower and local vegetable crops alone. He was not having Horticulture, forestry plants in his land, similarly he was also not having poultry birds and vermi compost units.He had 2 buffaloes and 6 bullocks as animal component. During 2004-05 &2005-06 farming system demonstrations under sujala project was implemented and demonstrated through Krishi Vigyan Kendra in the Maruti micro Watershed sanga, classified as micro watershed by sujala watershed organizations of Itagi subwatershed. Our Krishi Vigyan Kendra, conducted farming system demonstrations to promote the adoption of improved farming practices on major crops, introduced Horticulture plants, Sapota, Curryleaf and Lime, Animal husbandry (Giri rani Birds), Forestry (Teak) seedlings and construction of vermicompost twin units. The critical inputs distributed included improved seeds , Horticultural plants, sapota (DSH-1 and DSH-2), curryleaf (Suhavasini), teak seedlings etc. Similarly poultry birds (Girirani) 2 male and 10 female birds were distributed and twin vermicompost units were constructed.

Introducing the farming system demonstrations to the farmer with improved variety and technologies in Agriculture and vegetable crops increased farmers income substantially. In field crops, Greengram (S-4), Blackgram (TAU-1) Sunflower (KBSH-1), Little millet (sukshema), Foxtail millet (HMT-100-1) Redgram (Asha), Soybean (JS-335) and Cotton (DSH-11) with IPM practices were advocated and critical inputs provided.

Sri Shivappa B.H. has followed all above practices through the advice of KVK scientists, subsequently average yield of field crops increased to 37.56 q/ha compared to bench mark yield of about 18.90 q/ha. The annual gross income through field crops from rainfed increased from Rs.14580/- to Rs. 51420/- year. Similarly on cultivation of improved vegetable crops such as cluster bean, Bhendi, French bean Chilli, Tomato, Cucumber and Ash gourd, he has obtained increased average yield of vegetable crops i.e., 56 q/ha compared to bench mark yield 19.50 q/ha. The annual gross income through vegetable crops from rainfed increased from Rs. 11860/- to Rs. 23081/-.The Animal components *viz.*, 12 Girirani chicks

of one month old were distributed, which during the past 10 months have laid more than 500 eggs earning an income of Rs. 1500/- per year. Further few eggs were allowed to hatch and the chicks obtained, were subsequently sold @ Rs.50/- each bird of one month old. Similarly aged birds were sold for meat purpose locally @ Rs.300/- bird. The total earning from these animal components was Rs. 15000/- per year. In his farm construction of vermicompost twin units was takenup and efficient strain of earth worms were supplied for initiating vermi composting. He has produced 7 q/year/twin units.

The overall additional income of Shri. Shivappa B.H. Magod, increased to Rs. 50034/- per year (73%) over bench mark income of Rs. 13440/- per year. The benefit from every Rupee spent increased from 0.74 to 1.32 rupees

2. Sri Nagappa Mahalingappa Kodabal

Sri Nagappa Mahalingappa Kodabal, aged 67 years residing in Khurd kodihalli of Byadgi taluk is a medium farmer. His main occupation is Agriculture and his entire family is engaged in agriculture profession. He is having 11 acres of land which is quality irrigated. The soil is fertile for the sheer interest he takes in land management. Crops like Groundnut, Maize, Soyabean, Sunflower, Cotton (both in *Kharif* and *Rabi*), *etc*., are all grown in his field in an intensive manner. If any new technology in agriculture comes to limelight, he is the first to try in his field and always curious to know the result of such technology.

Krishi Vigyan Kendra, Hanumanamatti provided seed material of groundnut var. GPBD-4 for 1 acre land under Front Line Demonstrations in *kharif*, 2005 to Shri Kodabal. The said variety is having some special features of resistance to leaf spot disease, higher oil percentage and higher yield than other ruling varieties. The farmer has undertaken all the new production technologies like timely sowing, maintenance of optimum plant population, application organic and inorganic fertilizers, gypsum application, correct plant protection measures, timely harvesting which all in turn resulted in bumper harvest of yield to the extent of 20 quintals per acre. This yield has fetched him to receive a higher return than any time he has received earlier. The usual average yield of Groundnut is 10 q/acre. Encouraged by the good results, farmers of the village and neighboring have purchased seed material from Shri Kodabal and have tried in their field of around 17 acres during summer. All the farmers who have tried also have received good returns.

Sri Kodabal again cultivated var. GPBD-4 during summer, 2006 and again harvested the highest yield of 22 quintals per acre. This has made him proud and the farmers of the region acclaim him as an ideal farmer in the region. During that period the prevailing market rate of groundnut was Rs.1600/- per quintal. He sold the seed material of groundnut at that market rate and received a gross income of Rs.35,200/-. After deducting the cost of Rs 7000 from the gross, he was left with a net profit of Rs.28,000/- which has raised eyebrows of fellow farmers and has set a great example for other farmers. Now farmers in nearby villages are all shifting to var. GPBD-4 from other varieties of groundnut.

3. **Sri M .T. Motebennur**

Under Front Line Demonstrations (FLD) of cotton Sri M. T. Motebennur, the progressive farmer of the Kajjari village of Ranebennur taluka was provided with 2 kg seeds of cotton (variety DDHC-11) during *Rabi*-2005-06 from Krishi Vigyan Kendra, Hanumanamatti. DDHC-11 is high yielding variety which has been improved over local Jayadhar developed from ARS, Hebballi of UAS, Dharwad. The main characteristics of the cultivar being large number of bolls per plant harvested in 2-3 pickings, short-stapled fibre and retention of greenish tinge of plant till the harvest.

The farmer cultivated the crop as per the guidelines of Krishi Vigyan Kendra, scientists using all the ICM practices. He subsequently obtained yield of 3 qt/acre. After ginning the lint yield was 70 kg which was sold at @ of Rs. 6000/- per qt. He thus obtained Rs. 4,200/- from the sale of lint. The seed yield was 2.3 qt. which he sold to fellow farmers of neighboring villages @ Rs. 40 /kg. Thus earning of Rs.9,200/- in excess. In total he obtained Rs.13,400/- from lint and seeds per acre far greater than he could have obtained if he had cultivated local Jayadhar (Rs.6000 per acre.).

12. Constraints

a) Administrative

- Scientist working in the extension field from the past ten years have less opportunities to get exposure in research and teaching fields. Moreover, the extension scientist continues in the same cadre for longer period in comparison to the staff in research and teaching.
- Scientists of all disciplines work in the KVK. As the demands and work nature of each scientist differ, one needs to have separate computer to efficiently meet work demands and load. However, there are not individual computers allotted for hastening work of individual scientist. Increasing the number of computers will help individual scientists to complete their work allotted to them as per schedule and efficiently.

b) Financial

- Financial assistance is required for equipments like silent generator and digital handicam.
- Financial assistance either in the form of monetary benefits or tool kits may be provided for promoting group activities such as self help groups, youth clubs, farmer clubs and mahila mandals.

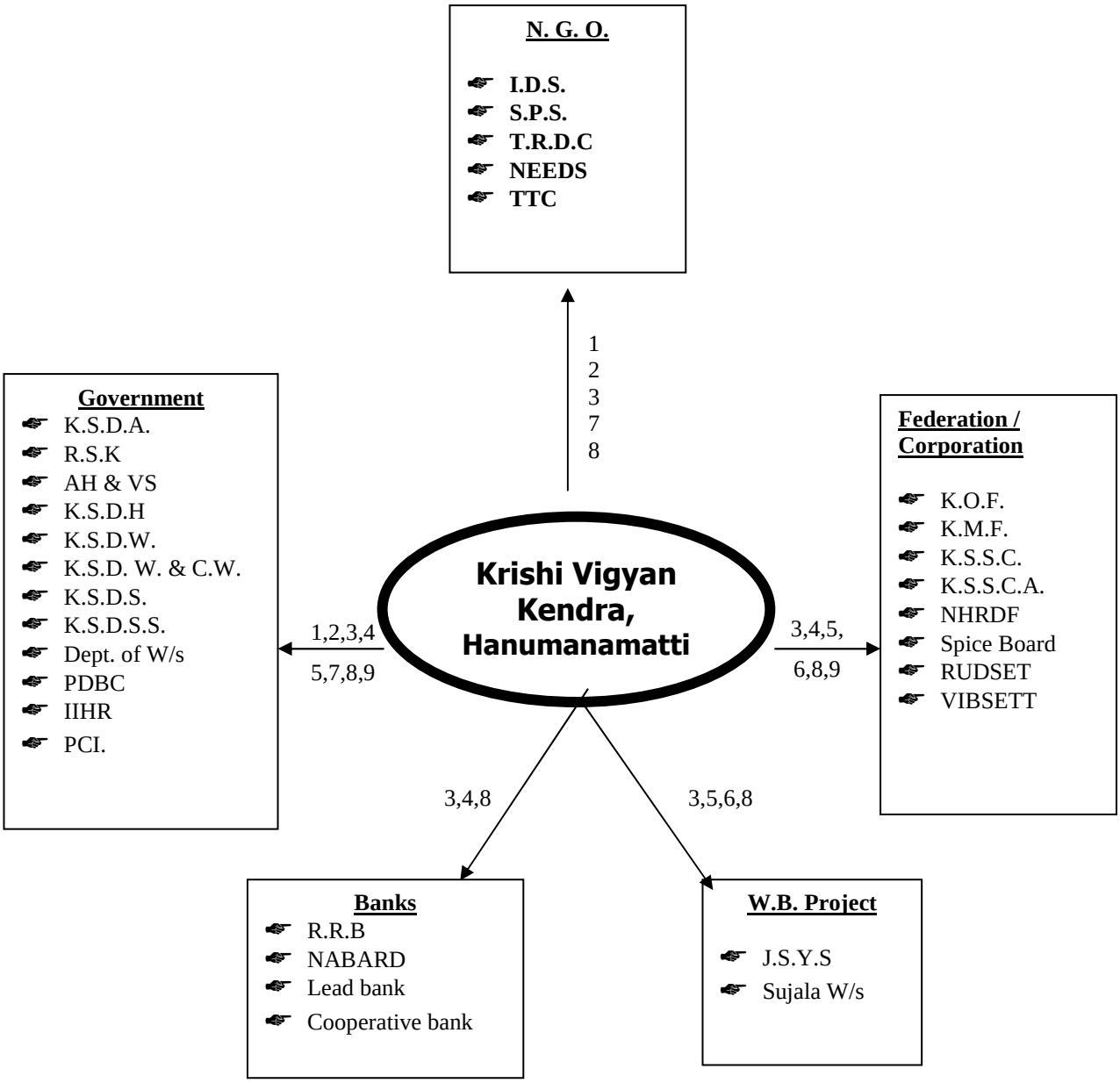
c) Technical

Demonstration unit with latest technical know- how are to be established with innovative institutions like KVK, for the benefit of visiting farmers to convey the recent advances in technology. So the essential requirements in terms of infrastructure are green house and Vermicompost units.

13. Functional linkage with different organization

Sl. No.	Name of the organization	Nature of Linkage
1.	State Dept. of Agriculture	Conducting training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
2.	State Dept. of Horticulture	Conducting training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
3.	Rural Development Institutes (Zilla & Taluk Panchayats)	Conducting training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
4.	State Dept. of Animal husbandry & Veterinary Services	Conducting training programmes, joint diagnostic survey and participation in meetings, seminars and field days.
5.	Karnataka Milk Federation	Conducting training programmes.
6.	Women and Child Development Department	Conducting training programmes.
7.	Karnataka Oil Seeds Federation	Supply of inputs
8.	NABARD, Vijaya Bank, State Bank of India, M.G. Bank and Syndicate Bank.	Participation in meeting, conducting training programmes and promotion of TTC.
9.	Bharath Agro Industries Foundation, Haveri	Conducting training programmes
10.	GRASIM Janakalyan Trust, Kumar Pattanum	Conducting training programmes.
11.	Sheep and Wool Development Board	Conducting trainings.
12.	State Dept. of Watershed	Conducting training programmes, IFS Demonstration, Seminars and Field days.
13.	JSYS	Conducting training programmes, Demonstration, Seminars and Field days.
14.	National Horticultural Research and Development Federation	Joint implementation and participation in meeting/Training Programme
15.	Spice Board	Joint implementation and participation in meeting/Training Programme
16.	Different private firms dealing with Medicinal and Aromatic crops	Training Programmes
17.	IIHR, Bangalore	Technical consultancy
18.	NGO's	Joint implementation and participation in meeting.
19.	Mahila Mandals and Youth Clubs	Joint implementation and participation in meeting.
20.	Sugar Factories	Joint diagnostic survey and participation in meeting
21.	Karnataka Sugar Institute, Belgaum	Joint diagnostic survey and participation in meeting/ Training
22.	Private Vegetable Seed Industry	Consultancy
23.	Successful Entrepreneurs	Conducting Training Programme/ Technical Advice
24.	Vijaya Bank Sponsored Employment Training Institute	Joint implementation participation in meeting and conducting in Training Programme.

LINKAGES DEVELOPED



Nature of Linkages are indicated by following Numbers

1. Training needs
2. Conducting of training programmes
3. Organising training programmes
4. Joint implementation of programmes for increasing productivity of crops/enterprises
5. Joint diagnostic survey
6. Contribution received for infrastructure development
7. Identification of target groups for implementing the KVK activities such as training, OFT, demonstrations
8. Advisory services
9. Supply of inputs/materials

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

15. a. Performance of instructional farm (Crops) including seed production : Nil

b. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,) : Nil

c. Performance of instructional farm (livestock and fisheries production) : Nil

16. Utilization of hostel facilities

Accommodation available (No.of beds)

Months	No.of trainees stayed	Trainee days (days stayed)
April 2005	-	-
May 2005		
June 2005	27	06
July 2005	39	04
August 2005	48	06
September 2005	-	-
October 2005	123	06
November 2005	52	10
December 2005	154	16
January 2006	33	04
February 2006	-	-
March 2006	-	-
Total	**476**	**52**

17. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

- Self help groups, Transfer of Technology clubs and Rural youth clubs.
- Use of successful entrepreneurs/ progressive farmers/Awardees as a resource persons.
- The paraprofessionals are fine tuned for their skills and utilized for Transfer of Technology.
- Experiences of ex - trainees.
- Agri-clinic entrepreneurs trained by MANAGE.
- Local fertilizer and pesticide vendors.

18. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

- Self help groups, Transfer of Technology clubs and Rural youth clubs.
- Use of successful entrepreneurs/ progressive farmers/Awardees as a resource persons
- The paraprofessionals are fine tuned for their skills and utilized for Transfer of Technology.
- Experiences of ex - trainees.
- Agri-clinic entrepreneurs trained by MANAGE.
- Local fertilizer and pesticide vendors.

19. Indicate the specific training need analysis tools/methodology followed for

- **Identification of courses for farmers/farm women**
-
- **Rural Youth**
-
- **In-service personnel**
-

20. List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Integrated Farming System Demonstrations	2004 – 2005 July, 2004	Sujala Watershed Development Project, Bangalore	8,83,500.00

21. Indicate seeds/planting/bio products/livestock materials produced and sold to the farmers (the information on production of seeds/planting/bio products/livestock materials furnished vide table 14 and 15 should also be included)

(a) FOR OILSEEDS

Sl. No.	Crops	Variety	Qty. (Quintals)
I.	Groundnut	GPDB-4	17.80
II.	Groundnut	TGLPS-3	1.30
		Total	**19.1**

(b) FOR PULSE CROPS

Sl. No.	Crops	Variety	Qty. (Quintals)
1	Cow pea	C-152	1.00
		Total	**1.00**

(c) FOR CEREAL CROPS

Sl. No.	Crops	Variety	Qty. (Quintals)
1.	Little millet	Sukshema	1.50
2.	Foxtail millet	HMT-100-1	4.00
		Total	**5.50**

a) FOR FRUIT/ VEGETABLE/PLANTATION CROPS etc.

Sl.No	Crops	Variety	Qty.(Nos.)
I	**FRUIT CROPS**		
1.	Sapota	DSH-1	405
		DSH-2	190
		Kallipatti	100
2.	Guava	Lucknow-49	150
3.	Lime	Local	20
4.	Pomegranate	Ganesh	60
		Total	**925**
II	**VEGETABLE CROPS**		
1.	Drumstick	Dhanraj	15
		Total	**15**
III	**SPICE CROPS**		
1.	Curry leaf	Suhasini	325
2.	Tamarind	PKM-1 & DTS-1	75
3.	Chakarmani	Local	60
		Total	**460**
		Grand Total	**1400**

(c) For bio products

Sl. No.	Name of the bio product	Species if applicable	Quantity (Nos./kgs)
I. Bio agents			
1	Trichodrama	*Trichodrama harizanum*	60
		Total	**60**
II. Bio pesticides	Nil		
III. Bio fertilizers	Nil		
IV. Organic Manures			
1	Vermicompost	Vermicompsot	3700
		Total	**3760**

(d) For Livestock materials : Nil

22. Scientific Advisory Committee meeting(s))

Sl.No.	Date	Salient Recommendations	Action taken
1.	10.11.2005	1. Conducting more on and off campus training programmes in Horticulture	4 On campus and 7 off campus training programmes were conducted
		2. Publish Krishi Vigyan Kendra, Activities in daily news papers	Published Extension activities done by Krishi Vigyan Kendra, in daily news paper.
		3. Organizing Field days in every FLD crops	Organized Field days in Redgram, Onion, Chilli and Chrysanthemum
		4. Conducting more farmers group meeting.	Conducted more farmers group meetings
		5. Increasing Production of horticulture seedlings through revolving fund	Produced and sold more seedlings through revolving fund.
		6. Detail reports on Soil, water and plant testing given to farmers.	Detail reports given to the farmers.
		7. Participation in different Exhibitions conducting in Haveri district along with line departments	Participated in all the Exhibitions in Haveri district along with line departments
		8. Organizing progressive farmers tours	Organised one farmers tour programme during 2005-06.
		9. More popularized groundnut varieties were procured through revolving fund and supply to the farmers	Thousand kgs Groundnut (GPBD-4) procured through revolving fund and supplied to the farmers.
2.	18.02.2006	1. Conducting more on and off campus training programmes in Medicitional and aromatic plants.	Under progress.
		2. Publish Success story of Progressive farmers in form of Booklet.	Under progress.
		3. Organizing On and Off campus training programmes for sericulture farmers.	Under progress.
		4. Increasing Production of horticulture seedlings through revolving fund	Produced and sold more seedlings through revolving fund.
		5. Submitting proposal for green house demonstration units	Proposal submitted.
		6. Organising off campus programme in FLD fields for extension functionaries of line departments	Organised.
		7. Organizing On campus training programme on Bio fuel.	Conducted,
		8. Organizing On campus training programme on Contract farming	Conducted.
		9. Sending proceedings and reports to all SAC members before one week of SAC meeting	Submitted proceedings and reports to all SAC members before one week of SAC meeting
		10. During SAC meeting all in disuval SMS present their work done report	During SAC meeting all SMS presented their work done report
		11. Proposal for District publicity officer as a SAC member.	Proposal to be Submitted .
		12. Utilization of Service of Line department officials and progressive farmers as resource prosons during On and Off campus training programmes	Utilized of Service of Line department officials and progressive farmers as resource posons during On and Off campus training programmes

23. Impact of KVK programmes

23. a) Cases of large scale adoption

1) Assessment of improved Soybean production technologies in Haveri district

Introduced Soybean crop for the first time in the district during 1997-98. During past 7 years, in total 70 ha. of Front Line Demonstrations have been under taken by the centre in the district. The response has been phenomenal with an increase in area, which is more than 1000 ha, inspite of prevailing drought conditions in the district. The variety JS-335 has been sought after by the farmers for it has high economic benefits.

Impact of improved production technologies on yield of Soybean

Season	Variety	No. of Demon.	Mean Yield (q/ha)		% Increase over Control	Technology advocated
			Improved Technology	Framers practice		
2003-04						➢ Improved Variety (JS-335) ➢ 2% Urea Spray (45 DAS)
Kharif	JS-335	13	5.25	3.75	40	
2004-05						
Kharif	JS-335	25	21.25	17.50	24	
2005-06						
Kharif	JS-335	25	15.83	12.20	29.75	

2) Assessment of improved Groundnut production technologies in Haveri district

Though groundnut is an important oil seed crop of the district, the productivity is very low, for predominant factors which include variety, plant population and improper management of nutrients. Front Line Demonstrations in Groundnut were initiated to boost oil seed production in the district. The suitable varieties for this region *viz* VRI-2, TAG-24, DH-86 and GPBD-4 have been distributed through Front Line Demonstrations (400 ha.) and sale of seeds (150 q). In comparison to the district average productivity of 15 q/ha, the productivity of the Front Line Demonstration plots was 25 q/ha. Further the spread of the improved varieties has also been through farmer to farmer, which is also significant.

Impact of improved production technologies on yield of Groundnut

Season	Variety	No. of Demon.	Mean Yield (q/ha)		% Increase over Control	Technology advocated
			Improved Technology	Framers practice		
2002-03						➢ **Improved variety (GPBD-4, DH-86 and TAG-24)** ➢ **Seed treatment with *Trichoderma* (4 g/kg seeds)** ➢ **Maintenance of optimum Plant population** ➢ Soil amendment with gypsum
Kharif	GPBD-4	15	10.80	8.50	27	
	VRI-2	10	14.70	8.50	73	
Rabi	VRI-2	09	14.95	10.00	50	
	TAG-24	03	18.00	10.00	80	
	DH-86	01	22.00	10.00	120	
2003-04						
Kharif	GPBD-4	25	8.25	7.5	10	
Rabi	GPBD-4	06	19.15	13.75	39	
	DH-86	06	17.60	13.75	28	
2004-05						
Kharif	GPBD-4	10	18.75	15.50	21	
Rabi	GPBD-4	10	24.72	18.05	33	
2005-06						
Kharif	GPBD-4	10	23.40	18.50	26.50	
Rabi	GPBD-4	13	16.90	12.80	24.26	

Popularisation of improved varieties of pigeon pea in Haveri district

Pigeon pea variety Asha has been popularised with emphasis on IPM technology through Front Line Demonstrations and sale of seeds. Previously productivity of the Pigeon pea was 4-5 q/ha which increased to 10-12 q/ha. This has been made possible by following IPM *esp* during flowering stage.

3) Impact of improved production technologies on yield of Pigeon pea variety Asha (ICPL-87119)

Season	Variety	No. of Demon.	Mean Yield (q/ha)		% Increase over Control	Technology advocated
			Improved Technology	Framers practice		
2002-03						➢ **Improved variety (Asha)** ➢ Integrated pest management ➢ Nutrient management
Kharif	Asha (ICPL-87119)	10	5.25	4.75	21	
2003-04						
Kharif	Asha (ICPL-87119)	15	4.20	3.50	20	
2004-05						
Kharif	Asha (ICPL-87119)	25	6.55	4.42	48	
2005-06						
Kharif	Asha (ICPL-87119)	25	8.94	7.00	26.24	

23. b) Details of impact analysis of KVK activities carried out during the reporting period

Income generating activities

Imparted skill oriented income generating activity training for rural youth for self employment like production of Agarbathi, Soap powder, Mushroom, Vermicompost, Dairy farming, Tailoring, Goat and Sheep rearing, Nursery techniques etc. These skills have helped the unemployed youth to earn their livelihood.

Sl. No	I.G. Activities	No. of beneficiaries		Average Increase in Annual income
		Trained	Adopted	
1.	Production packing and marketing of incense sticks (hand rolled agarabatties)	365 (16)*	92	5000-25000
2.	Candle Preparation	157 (8)	10	500-10000
3.	Tailoring and Hand embroideries	39 (4)	20	1000-10000
4.	Preparation of Masala powders for various culinary uses	35 (2)	07	500-12000
5.	Preparation of House hold sanitary items	56 (3)	20	1000-15000
6.	Establishment of Scientific management of early childhood education centres	22 (1)	10	10000-15000
7.	Mushroom cultivation	147 (6)	15	1400-10000
	Total	**821 (40)***	**174**	**19400-97000**

*** Numerals presented in parenthesis indicate number of training programmes**

24. Field activities

i. Number of villages adopted : 08

ii. No.of farm families selected : 80

iii. No.of survey/PRA conducted : 10

1.	**No. of villages adopted : 08**			
2.	**Year of adoption, village-wise**	**Village**		**Year**
		Motebennur		**1999-2000**
		Kabanur		
		Kodihalli		
		Tevermallalli		
		Sidenur		
		Tarur		
		Kamdod		
		Sheelavantsomapur		
3.	**Interventions identified and implemented**	**Soybean** ➢ Improved short durated variety (JS-335). ➢ 2 % urea spray 45 DAS **Groundnut** ➢ Improved short durated variety (GPBD-4). ➢ Gypsum application. ➢ Seed treatment. **Pigeon pea** ➢ Improved variety (Asha). ➢ Integrated pest management.		
4.	**Impact of intervention**			
	Intervention	**Major parameters**	**Situation during Bench mark year**	**Situation During 2005-06**
	Improved variety of soybean	Area	05 ha	25000 ha
		Shedding quality	High	Absent
		Yield	7.6 q/ha	18-19 q/ha.
		Duration	110-120 days	85-90 days
	Improved variety of Groundnut	Area	10 ha	500 ha
		Leaf spot and leaf rust disease incidence	40%	< 5%
		Yield	8.75 q/ha	25 q/ha.
		Duration	110-120 days	105-110 days
	Improved variety of Redgram	Area	05 ha	325 ha
		Sterility mosaic virus and Fusarium wilt incidence	32%	< 3%
		Yield	3.5 q/ha	12 q/ha.

25. Extension Activities (including activities of FLD programmes)

S. No.	Activities	No.of progs	Date(s)	No.of beneficiaries (farmers/Rural Youth)			No.of Extension functionaries		
				Male	Female	Total	Male	Female	Total
1	**Field days**	05	08.12.05	194	80	274	14	04	18
			28.12.05						
			23.02.06						
			07.09.06						
2	**Kisan Gosthi**	01		45	17	62	02	00	02
3	**Radio Talks (List of topics)**	07	24.10.05	Pest & disease Management in Onion					
			18.10.05	Pest control in Onion crop					
			24.01.06	Use of Bio-fertilizers in Agriculture and its importance					
			13.03.06	Disease management in summer crops					
			29.05.06	Improved Grain storage structures					
			25.06.06	Calf rearing					
			05.09.06	Use of Bio fertilizer in Agriculture					
			18.10.06	Management of Rabi crop disease through Bio Agents					
4	**TV Talks (List of topics)**	09	01.03.06	Integrated approach for control of Orbanche in Tomato					
			15.12.05	Improved production technologies for water melon					
				Improved production technologies for Aster					
			16.12.05	Agro forestry with organic framing					
			30.12.05	Aster production technology					
			14.12.05	Intercropping in Sapota					
			13.12.05	Propagation studies in fruit crops					
			13.12.05	Income generation activities in Horticulture					
			20.12.05	Integrated pest management in Redgram					
			26.12.05	Management of Black rot of Cabbage					
	Film show	06	07.12.05	82	31	113	12	06	18
			21.12.05						
			22.12.05						
			23.12.05						
			09.01.06						
			16.01.06						
5	**Exhibition**	2	5.2.06 to 13.02.06	40000	20000	60000			
			23.09.06 to 26.09.06	>60000	>25000	>65000			
6	**News coverage**	63							
7	**Popular articles**	13							
8	**Extension literatures**	06							
9	**Advisory services**	96							
10	**Field visits**	88							
11	**Seminars**	09	14.05.06	210	54	264	22	06	28
			15.05.06						
			16.05.06						
			26.05.06						
			27.07.06						
			28.07.06						
			14.08.06						
			24.08.06						
			28.09.06						
12	**Special Days**	02	05.09.06	163	74	237	12	02	14
			12.09.06						
13	**Demonstration**	02	04.09.06	28	08	36	08	02	10
			13.09.06						

26. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	SBI, Dharwad	Dharwad	-
With KVK	SBI RNR	RNR	01100050048

27. Utilization of funds under FLD on Oilseed *(Rs. In Lakhs)*

Item	Sanctioned by ZC		Released by ZC		Expenditure		Unspent balance as on 1st April 2006
	Kharif 2005	Rabi 2005-06	Kharif 2005	Rabi 2005 – 06	Kharif 2005	Rabi 2005-06	
Inputs	0.54	0.30	0.54	0.30	0.47	0.29	**0.08**
Extension activities	0.12	0.04	0.12	0.04	00	0.01	**0.15**
TA/DA/POL etc.	0.07	0.06	0.07	0.06	0.01	0.01	**0.11**
TOTAL	**0.73**	**0.4**	**0.73**	**0.4**	**0.48**	**0.31**	**0.34**

28. Utilization of funds under FLD on Pulses *(Rs. In Lakhs)*

Item	Sanctioned by ZC		Released by ZC		Expenditure		Unspent balance as on 1st April 2006
	Kharif 2005	Rabi 2005-06	Kharif 2005	Rabi 2005-06	Kharif 2005	Rabi 2005-06	
Inputs	0.28	0.09	0.28	0.09	0.08	0.07	**0.22**
Extension activities	0.04	0.01	0.04	0.01	0	0	**0.05**
TA/DA/POL etc.	0.06	0.02	0.06	0.02	0.02	0.02	**0.04**
TOTAL	**0.38**	**0.12**	**0.38**	**0.12**	**0.1**	**0.09**	**0.31**

29. a). Utilization of funds under FLD on Cotton *(Rs. In Lakhs)*

Item	Sanctioned by ZC		Released by ZC		Expenditure		Unspent balance as on 1st April 2006
	Kharif 2005	Rabi 2005-06	Kharif 2005	Rabi 2005-06	Kharif 2005	Rabi 2005-06	
Inputs	0.21	0.21	0.21	0.21	0.21	0.12	**0.09**
Extension activities TA/DA/POL etc.	0.09	0.09	0.09	0.09	0	0	**0.18**
TOTAL	**0.30**	**0.30**	**0.30**	**0.30**	**0.21**	**0.12**	**0.27**

b). Utilization of funds under FLD on Cotton (Farm implements) *(Rs. In Lakhs)*

Item	Sanctioned by ZC Kharif 2005	Released by ZC Kharif 2005	Expenditure Kharif 2005	Unspent balance as on 1st April 2006
Purchase of implements	0.90	0.90	0.89	**0.01**
Contingences for conducting demonstration	0.10	0.10	0.00	**0.10**
TOTAL	**1.00**	**1.00**	**0.89**	**0.11**

30. Utilization of KVK funds during the year 2005 -06 and 2006 -07 (upto Sep. 2006) (year-wise separately) (current year and previous year)

a). Utilization of KVK funds during the year 2005 –06

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	22.00	22.00	22.00
2	**Traveling allowances**	1.00	1.00	1.00
3	**Contingencies**	5.00	5.00	3.80
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.50	1.50	1.50
b	POL, repair of vehicles, tractor and equipments	1.00	1.00	0.97
c	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.75	0.75	0.37
d	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.40	0.40	0.36
e	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.50	0.50	0.36
f	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.30	0.30	0.23
g	Training of extension functionaries	0.25	0.25	0.00
h	Maintenance of buildings	0.20	0.20	0.00
i	Establishment of Soil, Plant & Water Testing Laboratory	-	-	0.00
j	Library	0.10	0.10	0.01
	TOTAL (A)	**28.00**	**28.00**	**26.8**
B. Non-Recurring Contingencies				
1	**Works**	16.53	1.53	3.30
2	**Equipments including SWTL & Furniture**	2.00	2.00	2.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0.40	0.40	0.40
4	**Library** (Purchase of assets like books & journals)	0.10	0.10	0.09
	TOTAL (B)	**19.03**	**19.03**	**5.79**
C. REVOLVING FUND		**1.00**	1.00	1.00
	GRAND TOTAL (A+B+C)	**48.03**	**33.59**	**33.59**

b). Utilization of KVK funds during the year 2006 –07 (upto Sep. 2006)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	**22.00**	**22.00**	**12.25**
2	**Traveling allowances**	**0.75**	**0.75**	**0.24**
3	**Contingencies**	**1.75**	**1.75**	
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	0.50	0.50	0.47
b	POL, repair of vehicles, tractor and equipments	0.35	0.35	0.31
c	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.25	0.25	0.08
d	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.10	0.10	0.00
e	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.30	0.30	0.00
f	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.15	0.15	0.00
g	Training of extension functionaries	0.10	0.10	0.00
h	Maintenance of buildings	0.00	0.00	0.00
i	Establishment of Soil, Plant & Water Testing Laboratory	0.00	0.00	0.00
j	Library	0.00	0.00	0.00
	TOTAL (A)	**24.50**	**24.50**	**13.11**
B. Non-Recurring Contingencies				
1	**Works (II installment for Quartrs)**	26.45	26.45	0.00
2	**Equipments (Computer Accessories & LCD)**	1.00	1.00	0.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	**Library** (Purchase of assets like books & journals)	1.10	1.10	0.00
	TOTAL (B)	**27.55**	**27.55**	**0.00**
C. REVOLVING FUND		**0.00**	**0.00**	**0.00**
	GRAND TOTAL (A+B+C)	**52.05**	**52.05**	**13.11**

31. Status of revolving fund (Rs. in lakhs) for the three years

Name of the Revolving Fund	Amount Received (ICAR/UAS, Dharwad)	Additional Amount Generated						Amount Refunded to (ICAR/UAS, Dharwad)
		2000 -01	2001 -02	2002 -03	2003 -04	2004 -05	2005 -06	
Horticulture	0.10	0.36	0.44	0.44	0.39	0.69	0.65	0.10
Trichoderma	0.20	0.30	0.33	0.35	0.33	0.34	0.16	0.20
Seed production	0.75	0.49	0.48	0.68	0.71	1.77	0.78	0.75
Vermicompost	0.10	00	0.12	0.12	0.13	1.40	0.04	0.10
Training	00	00	00	00	0.04	1.35	1.57	00
Revolving fund (ICAR)	Rupees one lakh has been received during 2005-06						1.78	-
Net balance	**1.15**	**1.16**	**1.37**	**1.60**	**1.61**	**4.28**	**4.98**	**-**

32. Activities of Soil, Water and Plant Testing Laboratory

Status of establishment of Lab : Laboratory has been instituted with all the requisite infrastructure. Analysis is being taken up.

If Yes:

1. Date of Establishment : 01-04-2005

1. 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
	Accessories			
	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
	Accessories			
	Conductivity cell	1	1000.00	1000.00
5.	Elico Microprocessor based Flame photometer (SS),	1	32040.00	32040.00
	Accessories			
	Calcium filter	1	2200.00	2200.00
6.	Elico Microprocessor based Scanning Visible Spectro photometer. Model : SL 177	1	40050.00	40050.00
	Accessories			
	Software and interfacing accessories for Spectrophotometer One Pair of Quartz Cuvettes, 100 nos. of Plastic Cuvettes, Tungsten Halogen lamp for Spectrophotometer		20000.00	20000.00

7.	Double Distillation water still (Glass) Silica Sheathed heater, CAP : 2 L/hr	1	16000.00	16000.00
	Accessories			
	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
	Accessories			
	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
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 5494.00	142844.00
	Microprocessor based Automatic Nitrogen Distillation system	1		
	Accessories			
	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.	**Laboratory wares**			
	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
			Total	**10,44,833.00**

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	52	52	43	2600
Water Samples	47	47	31	2350
Plant Samples	-	-	-	-
Total	**99**	**99**	**74**	**4950**

33. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

- **Yes**

b) Indicate the list of farmers recommended by ATMA for conducting FLD

- **Nil**

c) Whether ATMA Project Director is invited for KVK SAC Yes/No

- **Yes**

34. a) Give details of programmes implemented under National Horticultural Mission
Proposal Submitted to National Horticulture Mission.

Sl. No.	Title	Amount (Lakhs)
1.	Human Resource Development in Horticulture	**4.89**
2.	Popularsation of Utility of Eco-Friendly Industrial Waste as A Source of Micronutrients for Vegetables/Spice/Flower Crops	**4.11**
3.	Strengthening of Infra-Structural Facilities for Mass Multiplication of Fruit Crops	**5.87**
4.	Farmers Participatory Research on Post-harvest Management of Onion for Safe/ Cost Effective Storage	**2.86**

b) Is there any constraint in getting and implementing programmes under NHM

- **Awaiting for approval.**

SUMMARY TABLES

Table – 1 Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women (regular + sponsored + vocational)

AREA	No.of courses	No.of beneficiaries					
		Male	Female	Total	SC	ST	Total
Crop Production	13	202	31	233	68	15	**83**
Horticulture	14	221	48	269	105	23	**128**
Livestock Production and Management	01	03	00	03	00	00	**00**
Home Science	14	06	222	228	03	56	**59**
Agril. Engineering	06	112	26	138	18	04	**22**
Plant Protection	24	338	78	416	55	16	**71**
Ag. Extension	09	181	54	235	51	10	**61**
Soil fertility & Management	07	64	14	78	17	01	**18**
Others (Pl. specify)	06	100	08	108	35	03	**38**
TOTAL	**94**	**1227**	**481**	**1708**	**352**	**128**	**480**

Table – 2 Area-wise distribution of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational)

AREA	No.of courses	No.of beneficiaries					
		Male	Female	Total	SC	ST	Total
Crop Production	03	61	25	86	09	09	**18**
Horticulture	01	25	13	38	04	07	**11**
Home Science	04	09	81	19	04	15	**19**
Plant Protection	02	53	35	88	04	05	**09**
Ag. Extension	01	03	30	33	00	02	**02**
Soil fertility & Management	01	25	13	38	04	07	**11**
Others (Pl. specify)	03	79	19	98	10	11	**21**
TOTAL	**15**	**255**	**216**	**471**	**35**	**56**	**91**

Table – 3 Area-wise distribution of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored + vocational)

AREA	No.of courses	No.of beneficiaries					
		Male	Female	Total	SC	ST	Total
Crop Production	01	00	25	25	00	10	**10**
Horticulture	03	21	50	71	05	20	**25**
Plant Protection	10	253	41	294	53	13	**63**
Ag. Extension	01	20	10	30	01	01	**02**
Others (Pl. specify)	01	16	00	16	01	00	**01**
TOTAL	**16**	**310**	**126**	**436**	**60**	**44**	**101**
Grand Total (A+B+C)	**125**	**1792**	**823**	**2615**	**447**	**228**	**672**

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	194	80	274	14	4	18	208	84	**292**
Farmers Seminar	9	210	54	264	22	6	28	232	60	**292**
Radio & TV Talk	16									
Film Show	6	82	31	113	12	6	18	94	119	**213**
Exhibition	2	>1.0 L	>0.45 L	>1.45				>1.0 L	>0.45 L	>1.45
Newspaper coverage	63									
Popular articles	13									
Extension Literature	6									
Advisory Services	96	140	20	160	8	0	8	148	20	**168**
Kissan gosti	1	45	17	62	2	0	2	47	17	**64**
Special days	2	163	74	237	12	2	14	175	76	**251**
Total	**220**	**834**	**276**	**1110**	**70**	**18**	**88**	**904**	**376**	**1280**

Table – 5 Productions of Seeds

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I. CEREALS					
1	Little millet	Sukshema	1.50	1800.00	**25**
2	Foxtail millet	HMT-100-1	4.00	4800.00	**50**
		Total	**5.50**	**6600.00**	**75**
II. OIL SEEDS					
1	Ground nut	GPBD-4	17.80	49840.00	**15**
2	Ground nut	TGLPS-3	1.30	3640.00	**05**
		Total	**19.10**	**53480.00**	**20**
III. PULSES					
1	Cowpea	C-152	1.00	3200.00	**20**
		Total	**1.00**	**3200.00**	**20**

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I	**CEREALS**	5.50	6600.00	75
II	**OIL SEEDS**	19.10	53480.00	20
III	**PULSES**	1.00	3200.00	20
	TOTAL	**25.60**	**63305.00**	**115**

Table – 6 Production of planting/seedling materials of Fruits/Vegetables/Forest Species

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I. FRUITS					
1	Sapota	DHS-1,2	**695**	**34750**	**35**
2	Guava	L-49	**150**	**3000**	**10**
3	Lime	Local	**20**	**400**	**04**
4	Pomegranate	Ganesh	**60**	**300**	**05**
		Total	**925**	**38450**	**54**
II. VEGETABLES					
1	Drumstick	Dhanraj	**15**	**225**	**03**
		Total	**15**	**225**	**03**
III. SPICES					
1	Curry leaf	Suhasini	**325**	**1625**	**45**
2	Tamarind	PKM-1	**75**	**1875**	**10**
3	Chakarmani	Local	**60**	**600**	**10**
		Total	**460**	**4100**	**65**

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I	**FRUITS**	925	38450.00	54
II	**VEGETABLES**	15	225.00	03
III	**SPICES**	460	4100.00	65
TOTAL		**1400**	**42775.00**	**122**

Table –7 Production of bio products

Sl. No.	Name of the bio product	Species if applicable	Quantity (Nos/kgs.)	Value (in Rs.)	Provided to No. of Farmers
I. Bio agents					
1	Tricodrama	*Tricodrama harizanum*	60	12000.00	20
		Total	60	12000.00	20
II. Organic Manures					
1	Vermicompost	Vermicompost	**3700**	**9250.00**	**25**
		TOTAL	**3700**	**9250.00**	**25**

Table 8 Livestock materials : Nil

Table – 9 Front Line Demonstration on Oilseed Crops

Crop & Season	No.of demonstrations	Area (ha)	Demonstration yield (q/ha)	Local yield (q/ha)	% increase
Groundnut Kharif	13	10	23.40	18.50	26.50
Soyabean Kharif	25	10	15.83	12.20	29.75
Sunflower Kharif	12	05	10.85	8.50	27.00
Groundnut Rabi	13	10	16.95	12.80	24.26
Sunflower Rabi	12	05	7.75	6.60	14.84
Safflower Rabi	13	05	6.90	5.62	18.55
Total	**88**	**45**			

Table – 10 Front Line Demonstration on Pulse Crops

Crop & Season	No. of demonstrations	Area (ha)	Demonstration yield (q/ha)	Local yield (q/ha)	% increase
Redgarm Kharif	25	10	8.94	7.05	26.24
Greengarm Kharif	10	05	2.57	2.00	28.50
Blackgarm Kharif	13	05	5.10	3.95	29.11
Bengalgarm Rabi	10	04	7.36	6.10	17.12
Total	**53**	**24**			

Table – 11 Front Line Demonstration on Other Crops

Crop	No. of demonstrations	Area (ha)	Demonstration yield (q/ha)	Local yield (q/ha)	% increase
Cotton Kharif	10	10	13.74	10.32	24.89
Cotton Rabi	20	20	6.97	4.90	28.41
TOTAL	**30**	**30**	**20.71**	**15.22**	**53.3**

Table – 11 Front Line Demonstration on Horticulture Crops- Kharif

Crop & Season	No. of demonstrations	Area (ha)	Demonstration yield (q/ha)	Local yield (q/ha)	% increase
Ginger	08	1.60	7.8	6.4	21.88
Turmeric	08	1.60	4.2	2.3	45.23
Brinjal	05	02	21.4	16.5	29.36
Tomato	05	02	12.3	8.9	38.2
Garlic	10	02	5.45	4.0	36
Chilli	10	02	9.56	7.1	34.65
Aster	08	01	4.95	3.8	30.26
Chrysanthemum	08	03	10.15	7.7	31.8
Cabbage	05	2.5	16.36	12.4	31.93
Onion	10	02	20.9	15.8	32.2
French bean	10	05	4.87	3.8	28.15
Total	**87**	**24.7**	**117.94**	**88.7**	**359.66**

Table – 12 Front Line Demonstration on Other enterprises : Nil

Table – 13 A No. of On Farm Trials conducted

Crops	Varietal/ feed evaluation	Nutrient/ feed management	Cropping system	Zero tillage	Weed management	Insect/ disease management	Total
Vegetables, fruits & flowers		01			01	03	05
Total		**01**			**01**	**03**	**05**

Table – 13 B Details of technology refined

Technology tested	No. replications	Technology refined	Result justifying the refinement
Integrated weed Management in Onion	03	Oxyflaorten 23.5% EC (1.1 lit in 1000 lit/ha)	Spraying of Oxflaorfen 23.5% EC (1.1 lit in 1000 ltr/ha) for control of weeds in onion was found to be effective in increasing the yield to the extent of 26 per cent over farmers practice and 15 per cent over RPP.
Micronutrient Management in Cabbage	03	Application of FYM 25 t/ha RDF 150:100:125 NPK/ha 1.50 t/ha GOT	Application of 25 tan/ha FYM and RDF (150 :100:125) NPK kg/ha + 1.50 t/ha GOT was found effective in increasing the yield in cabbage to the extent of 32.20 per cent over farmers practice and 14 per cent over RPP.
Management of Tomato Fruit borer	03	Spraying of Spinosad 48 SC (0.1 ml/lit)	Spraying of spinosad 48SC (0.1 ml/lit) for control of fruit borer in tomato was found to be effective in increasing the yield to the extent of 32 per cetn over farmers practice and 22 per cent over RPP.
Management of Alternaria leaf blight of Chrysanthemum	03	Spraying Propiconazole (0.1%)	Spraying of Propicanozole (0.1%) for management of altenaria leaf blight in Chrysanthemum was found to be effective in increasing the yield to the extent of 35 per cent over farmers practice and 22 per cent over RPP.
Management of Yellow vein Mosaic of Okra (Bhendi)	03	Seed treatment with imidadoprid 70 WP @ 5 gm/kg seeds spraying of imidacloprid 50 SL @ 0.25 ml / lit	Seed treatment with imidacloprid 70 WP @ 5 gm/kg seeds and spraying of imidacloprid 50 SL @ 0.25 ml/lt for control yellow vein mosaic of Okra was found to be effective in increasing the yield to the extent of 35 per cent over farmers practice and 20 per cent over RPP.