

**UNIVERSITY OF AGRICULTURAL SCIENCES**  
**DHARWAD**



**PROGRESS REPORT**  
( OCT, 2004 to SEPT, 2005)



of  
**KRISHI VIGYAN KENDRA**  
**HANUMANAMATTI**

Prepared for the  
**Annual Review Meeting of KVK's of Zone VIII**  
**2004-2005**

at  
**RVS Trust, Dindigul, Tamil Nadu**  
**(21<sup>st</sup>-23<sup>rd</sup> September, 2005)**

**KRISHI VIGYAN KENDRA,**  
**HANUMANAMATTI-581 135**  
**TQ: RANEBENNUR, DT: HAVERI**  
**KARNATAKA STATE**

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**ANNUAL REPORT OF KRISHI VIGYAN KENDRA  
HANUMANAMATTI  
(For the period October 2004 to September 2005)**

1. **Name and address of the KVK with Pin code** : **KRISHI VIGYAN KENDRA  
HANUMANMATTI-581 135  
HAVERI DISTRICT**

Telephone with STD code

	STD Code	Phone No.
Office	08373	253524
FAX	08373	253524
Residence	08373	262531
<b>Email Address: kvk_haveri @rediffmail.com</b>		
<b>Mobile :</b>		9448338145

Name of the Organization : University of Agricultural Sciences,  
**Dharwad –580 005**

Address : Krishi Nagar, **Dharwad- 580 005**  
Telegraphic Address : **UNIVAGRIS**  
Fax No. : **91-0836-348349**

2. **Staff Position ( as on 31st August 2005)**

Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay scale	Date of joining	P/T	Category
Training Organizer	<b>Mr.D.S.M. Gowda</b>	Training Organiser.	Soil & Water Cons. Engg.	12000-16500	06.10.94	P	GM
Training Associate	<b>Dr.S.V. Halakatti .</b>	Training Associate	Agricultural Extn. Edn.	8000-13500	06.10.95	P	GM
Training Associate	<b>Dr. C.M. Sajjanar</b>	Training Associate	Animal Genetics and Breeding	8000-13500	14.02.97	P	GM
Training Associate	<b>Dr.S.M.Hiremath.</b>	Training Associate	Horticulture (Olericulture)	8000-13500	09.07.02	P	GM
Training Associate	<b>Mr. K .B.Yadahalli</b>	Training Associate	Plant Pathology	8000-13500	03.10.03	P	GM
Training Associate	<b>VACANT</b>	-	-	-	-	-	-
Training Associate	<b>VACANT</b>	-	-	-	-	-	-
Training Associate	<b>Smt.V. Kamaraddi</b>	Res. Assoc. Against Trg. Asst	Home Science	11960 Cons.	11.11.03	T	GM
Training Assistant	<b>Mr. H.R. Nagaraju</b>	Training Assistant	Soil Science	8750 Cons	02.06.04	T	GM
Computer Programmer	<b>Ms. K.N. Rekha</b>	Training Assistant	Computer Science	8750 Cons.	02.06.04	T	GM
Farm Manager	<b>VACANT</b>	-	-	-	-	-	-
Accountant / Superintendent	<b>Mr. A.B.Banakar.</b>	Superintendent (General)	Superintendent	6000-11120	01.07.03	P	GM
Stenographer	<b>Mr. K .T. Beldar</b>	Typist	Typist	4150-7800	10.04.03	P	SC
Driver	<b>Mr. B.Ramesh</b>	Driver (LV)	Driver (LV)	3000-5450	30.05.95	P	GM
Driver	<b>Mr. C.V.Nelogal</b>	Farm Labour	Farm Labour	3,000-5450	01.07.02	P	GM
Supporting staff	<b>Mr.P.C.Kunbevin</b>	Senior Watchman	Senior Watchman	3,000-5450	07.06.98	P	GM
Supporting staff	<b>Mr.K.B.Belakeri</b>	Gardener	Gardener	2500-3850	02.11.98	P	GM

**P- Permanent , T-Temporary**

**3. Total Land with KVK (in ha.)**

:

Sl. No	Item	Area ( ha)
A.	Under Buildings.	0.071 (710 sq.mt)
B.	Under Demonstration Units.	-
C.	Orchard	0.10
D.	Under CWPS	20
<b>Total</b>		<b>20.171</b>

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

Sl No	Name of building	STAGE		Source of funds
		Complete (Plinth area in sq.m)	Incomplete (Plinth area in sq.m)	
1.	Administrative building	400	-	ICAR
2.	Farmers Hostel	305	-	ICAR
3.	Staff Quarters(6)	-	-	-
4.	Demonstration Units (2)	-	-	-
<b>Total</b>		<b>705</b>	<b>-</b>	<b>-</b>

**B) Vehicles**

Type of Vehicle	Model	Actual cost (Lakhs)	Total Kms. Run	Present status
<b>Tempo trax (Judo)</b>	Tempo Trax Judo	4.50	69,000	Good
<b>Two Wheeler</b>	Bajaj CT-100	0.40	1,700	Good

**C) Equipments and AV aids**

Nature of the equipment	Year of purchase	Cost	Present status
<b>Computer with Accessories</b>	2003	80,000.00	Good
<b>Fax machine</b>	2004	25,000.00	Good
<b>Xerox Machine</b>	2005	52,000.00	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 753 mm of rainfall between June to October. The rainfall is received in two peaks, first being in July followed by the second peak in September. Haveri district is known for its chilli and small millets cultivation. Haveri, has total geographical area of 4.85 lakh ha. with cultivated area of 3.86 lakh ha., of which 72671 ha is irrigated (14.98%). Haveri district consists of seven taluks spread over 675 villages. The soils are predominantly Alfisols (65%) and Vertisols (35%). Wide disparity is noticed in Land holding pattern in the district. 41.63 per cent of farmers have land holding size of 1-2 ha., while 22.67 and 33.87 per cent of farmers have lands with size of less than 1 ha. and 2-10 ha respectively. Only 2.53% have land size greater than 10 ha.

### Rainfall (mm) pattern of different Taluks of Haveri District

TALUKA	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUN		JULY		AUGUST		TOTAL	
	Nor.	04	Nor.	04	Nor.	04	Nor.	05	Nor.	05	Nor.	05	Nor.	05	Nor.	05	Nor.	05	Nor.	05	Nor.	05	Nor.	05
<b>Haveri</b>	126.50	62.10	0.00	0.00	0.00	0.00	3.10	0.00	2.30	0.00	7.70	0.00	44.50	42.32	82.40	42.90	93.80	19.62	164.90	270.52	96.30	103.25	<b>621.50</b>	<b>540.71</b>
<b>Byadgi</b>	125.90	16.80	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	3.70	0.00	40.90	41.40	77.80	31.60	89.40	71.60	146.60	348.20	92.20	92.90	<b>577.00</b>	<b>602.50</b>
<b>Hangal</b>	117.50	38.40	0.00	0.00	0.00	0.00	1.90	0.00	1.10	0.00	5.80	0.00	38.60	60.30	70.20	43.54	142.00	172.60	283.20	372.60	151.70	128.60	<b>812.00</b>	<b>816.04</b>
<b>Hirekerur</b>	125.10	1.40	0.00	0.00	0.00	0.00	1.00	0.00	3.20	0.00	3.80	0.00	37.80	118.20	74.30	59.98	101.10	114.30	209.10	418.10	111.40	120.00	<b>666.8</b>	<b>831.98</b>
<b>Ranebennur</b>	119.60	52.60	0.00	0.00	0.00	0.00	2.00	-	1.90	-	5.60	-	37.50	53.36	77.50	60.08	69.40	39.93	98.80	227.00	71.10	73.86	<b>483.40</b>	<b>506.83</b>
<b>Savanur</b>	120.60	53.50	0.00	0.00	0.00	0.00	1.10	0.00	2.10	0.00	2.90	0.00	29.10	31.80	89.40	75.90	84.50	88.70	129.20	175.00	87.80	63.40	<b>546.70</b>	<b>488.30</b>
<b>Shiggaon</b>	119.10	36.40	0.00	0.00	0.00	0.00	1.70	0.00	1.10	0.00	3.60	0.00	38.80	46.40	70.40	39.10	90.80	158.90	168.90	265.00	106.20	115.00	<b>600.6</b>	<b>660.80</b>
<b>Average</b>	126.50	62.10	0.00	0.00	0.00	0.00	3.10	0.00	2.30	0.00	7.70	0.00	44.50	42.32	82.40	42.90	93.80	19.62	164.90	270.52	96.30	103.25	621.50	540.71

Haveri district in the Northern transition zone receives rainfall predominantly through SW monsoon. 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 monsoon, the Agricultural scenario has improved considerably this year.

## HAVERI DISTRICT AT A GLANCE – BASIC INFORMATION OF HAVERI DISTRICT

Geological Area(ha)	4,85,156
Number of Talukas	07
Number of Corporations	06
Number of Village Panchayats	210
Number of Villages	675
Population	12,69,200
Urban Population	2,03,700
Village Population	10,65,500
Cultivable Land (ha)	3,86,071
Irrigated Land (ha)	72,671
Forest Area (ha)	47,454
Normal Rainfall (mm)	752.80
Agricultural Training Schools	02
Seed Production Centers	02
No. of Rain Gauges	27

### Horticulture Scenario of Haveri District (Area in ha)

Sl. No.	Taluka	Fruit Crops	Vegetables	Spices	Horticulture Crops	Flowers	Total
1	Haveri	333	1569	7217	85	106	9310
2	Hanagal	657	1218	1295	471	164	3805
3	Shiggaon	670	212	9054	257	79	10263
4	Savanur	197	375	15223	444	208	16447
5	Byadagi	471	1824	1118	460	173	4046
6	Ranebennur	808	6709	1450	510	137	9164
7	Hirekerur	1602	8708	3488	1786	626	25824
	<b>Total</b>	<b>4738</b>	<b>20615</b>	<b>38836</b>	<b>4013</b>	<b>1493</b>	<b>78859</b>

### Veterinary Institutions of Haveri District

Sl. No.	Taluka	Vet. Hospitals	Vet. Dispensaries	Primary Vet. Centres	Artificial Insemination Centres	Key Village Scheme Centres	Mobile Vet. Clinics	Regional Labs.	Total
1	Haveri	1	7	8	6	1	1	--	23
2	Hirekerur	2	6	12	9	1	1	--	31
3	Hanagal	1	4	11	1	--	1	--	31
4	Ranebennur	1	5	15	--	--	1	--	18
5	Shiggaon	2	3	6	6	--	1	1	19
6	Byadagi	2	3	10	--	--	1	--	16
7	Savanur	1	1	7	--	--	1	--	10
	<b>Total</b>	<b>10</b>	<b>29</b>	<b>69</b>	<b>22</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>140</b>

### Live Stock population of Haveri District

Sl. No.	Talukas	Cattle	C. B. * Cattle	Buffaloes	Total	Sheep	Goat	Pigs	Total	Poultry Birds
1	Haveri	43434	6806	20018	70258	51343	26373	670	148644	399973
2	Hirekerur	66379	7695	28792	102866	14701	26027	474	144068	190907
3	Hanagal	61286	1945	16183	79414	23347	16698	574	120033	165012
4	Ranebennur	41002	3060	28504	72566	103686	34078	394	210724	316296
5	Shiggaon	40315	3425	10479	54219	24877	9572	458	89126	142594
6	Byadagi	32480	3948	11265	47693	11806	13608	171	73278	105148
7	Savanur	29746	2172	10753	42671	16982	11084	268	71005	96634
	<b>Total</b>	<b>314642</b>	<b>29051</b>	<b>125994</b>	<b>4693687</b>	<b>246742</b>	<b>130440</b>	<b>3009</b>	<b>856878</b>	<b>1416564</b>

\* Cross bred cattle

### Area Under different Crops (ha.) 2005-06 in Haveri district

Crop	Haveri	Byadagi	Savanur	Shiggaon	Hangal	Hirekerur	Ranebennur	Total
1. Maize	23367	17055	9491	8694	22845	37384	15008	133844
2. Sorghum	6342	2084	4964	2883	1500	3312	4176	25261
3. Cotton	5826	8314	625	5267	4300	7005	1653	32990
4. Groundnut	3880	291	7563	4248	250	984	1585	18801
5. Greengram	2228	734	5444	992	309	330	1352	11389
6. Paddy	386	445	25	6911	9835	324	2697	20623
7. Soybean	1083	123	709	1671	945	64	28	4623
8. Redgram	1534	1313	1057	1057	746	1298	1641	8646
9. Small millets	3292	764	2274	1641	235	723	1996	10925
10. Onion	2545	-	-	-	-	-	4679	7224
11. Sunflower	1014	16	307	10	-	79	2777	4203
12. Niger	207	237	421	36	89	223	303	1516
13. Blackgram	183	257	19	24	272	59	-	814
14. Castor	73	182	11	25	-	-	216	507

#### 6. Thrust areas identified through PRA or any other method.

- I. Popularization of small millets in rainfed crop production system.
- II. Empowerment of rural youth / women through skill oriented income generating activities in agriculture and allied fields.
- III. Rain water harvesting with emphasis on ground water recharge.
- IV. Promotion of organic farming – Vermicompost.
- V. Integrated farming system for rainfed ecosystem.
- VI. Technology dissemination through production and supply of plant and seed materials.
- VII. Popularization of production technology of mandate crops.
- VIII. Improving the usage of biofertilizers and biopesticides.
- IX. Popularization of locally available feed resources for livestock.
- X. Entrepreneurship Development Programmes.
- XI. Dairying – Scientific selection, Nutrition, Breeding and health.
- XII. Value addition through product diversification.

## 7. Training Achievements

### A) On Campus

Discipline	No. of courses	No. Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
<b>(A) Practicing Farmers</b>								
Crop Production	1	12	0	12	2	0	2	14
Horticulture	2	24	4	28	7	4	11	39
Livestock Production and Management	1	1	2	3	0	19	19	22
Home Science	13	29	133	162	9	48	57	219
Agricultural Extension Education	4	17	8	25	7	8	15	40
Agricultural Engineering	1	14	0	14	0	0	0	14
Plant pathology	2	31	0	31	8	0	8	39
Entomology	4	28	15	43	5	26	31	74
<b>Total</b>	<b>28</b>	<b>156</b>	<b>162</b>	<b>318</b>	<b>38</b>	<b>105</b>	<b>143</b>	<b>461</b>
<b>(B) Rural Youth</b>								
Home Science	1	2	17	19	3	6	9	28
Entomology	1	5	9	14	0	0	0	14
<b>Total</b>	<b>2</b>	<b>7</b>	<b>26</b>	<b>33</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>42</b>
<b>(C) Extension Functionaries</b>								
Home Science	1	0	16	16	0	1	1	17
Agricultural Extension Education	1	8	28	36	2	2	4	40
<b>Total</b>	<b>2</b>	<b>8</b>	<b>44</b>	<b>52</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>57</b>
<b>Grand Total (A+B+C)</b>	<b>32</b>	<b>171</b>	<b>232</b>	<b>403</b>	<b>43</b>	<b>114</b>	<b>157</b>	<b>560</b>

### B) Off Campus

Discipline	No. of courses	No. Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
<b>(A) Practicing Farmers</b>								
Crop Production	2	75	11	86	15	5	20	106
Horticulture	4	53	54	107	31	22	53	160
Livestock Production and Management	12	137	103	240	39	86	125	365
Home Science	42	86	863	949	75	535	610	1559
Plant Pathology	2	75	27	102	19	18	37	139
Agricultural Extension Education	16	64	98	162	25	89	114	276
Agricultural Engineering	2	30	10	40	5	10	15	55
Entomology	6	208	100	308	34	28	62	370
Soil Science	6	45	61	106	31	24	55	161
<b>Total</b>	<b>92</b>	<b>773</b>	<b>1327</b>	<b>2100</b>	<b>274</b>	<b>817</b>	<b>1091</b>	<b>3191</b>
<b>(B) Rural Youth</b>	<b>Nil</b>							
<b>(C) Extension Functionaries</b>	<b>Nil</b>							
<b>Grand Total (A+B+C)</b>	<b>92</b>	<b>773</b>	<b>1327</b>	<b>2100</b>	<b>274</b>	<b>817</b>	<b>1091</b>	<b>3191</b>



C) Consolidated table for On and Off Campus

Discipline	No. of courses	No. Participants						Grand Total
		Others		Total	SC/ST		Total	
		Male	Female		Male	Female		
<b>(A) Practicing Farmers</b>								
Crop Production	3	87	11	98	17	5	22	<b>120</b>
Horticulture	6	77	58	135	38	26	64	<b>199</b>
Livestock Production and Management	13	138	105	243	39	105	144	<b>387</b>
Home Science	55	115	996	1111	84	583	667	<b>1778</b>
Agricultural Extension Education	20	81	106	187	32	97	129	<b>316</b>
Agricultural Engineering	3	44	10	54	5	10	15	<b>69</b>
Plant pathology	4	106	27	133	27	18	45	<b>178</b>
Entomology	10	236	115	351	39	54	93	<b>444</b>
Soil Science	6	45	61	106	31	24	55	<b>161</b>
<b>Total</b>	<b>120</b>	<b>929</b>	<b>1489</b>	<b>2418</b>	<b>312</b>	<b>922</b>	<b>1234</b>	<b>3652</b>
<b>(B) Rural Youth</b>								
Home Science	1	2	17	19	3	6	9	<b>28</b>
Entomology	1	5	9	14	0	0	0	<b>14</b>
<b>Total</b>	<b>2</b>	<b>7</b>	<b>26</b>	<b>33</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>42</b>
<b>(C) Extension Functionaries</b>								
Home Science	1	0	16	16	0	1	1	<b>17</b>
Agricultural Extension Education	1	8	28	36	2	2	4	<b>40</b>
<b>Total</b>	<b>2</b>	<b>8</b>	<b>44</b>	<b>52</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>57</b>
<b>Grand Total (A + B + C)</b>	<b>124</b>	<b>944</b>	<b>1559</b>	<b>2503</b>	<b>317</b>	<b>931</b>	<b>1248</b>	<b>3751</b>

(D) Vocational training Programs for Rural Youth : Nil

(E) Sponsored Training Programs

Title	Discipline	Month	Dur. (Days)	No. of courses	No. of Participants						Sponsoring agency	
					Others		SC/ST		Total			
					M	F	M	F	M	F		T
<b>(A) Practicing Farmers</b>												
Formation and Main tenance of TTC	Ag. Extension	March	01	01	09	01	03	00	12	01	13	NABARD
	Ag. Engg.	March	01	01	12	04	00	00	12	04	16	NABARD
	Home Science	March	01	01	20	00	00	00	20	00	20	NABARD
	Plant Pathology	March	01	01	14	00	00	00	14	00	14	NABARD
<b>Total</b>			<b>04</b>	<b>04</b>	<b>55</b>	<b>05</b>	<b>03</b>	<b>00</b>	<b>58</b>	<b>05</b>	<b>63</b>	
<b>(B) Rural youth</b>												
Nil												
<b>(C) Extension Functionaries</b>												
Nil												
<b>Grand Total</b>			<b>04</b>	<b>04</b>	<b>55</b>	<b>05</b>	<b>03</b>	<b>00</b>	<b>58</b>	<b>05</b>	<b>63</b>	

8. Results of Frontline Demonstrations.

(A) Oilseeds

a) Details of implementation

Sl. No.	Crop	Year	Season	Area (ha)		No. farmers/ demonstration			Remarks
				Proposed	Actual	SC/ST	Others	Total	
1.	Groundnut	2004-05	Kharif	10	10	03	07	10	Sanctioned FLDs have been implemented
2.	Sunflower	2004-05	Kharif	05	05	03	10	13	
3.	Castor	2004-05	Kharif	05	05	04	09	13	
4.	Soybean	2004-05	Kharif	10	10	04	21	25	
5.	Groundnut	2004-05	Rabi	10	10	00	10	10	
6.	Sunflower	2004-05	Rabi	05	05	01	12	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)	No. of rainy days
				N	P	K					
Groundnut	<i>Kharif</i>	Rainfed	Sandy loam & loamy	Low	Medium	Low	Sorghum, Maize, Cotton	I F.N June,04	I F.N.Oct.04	240.5	42
Sunflower	<i>Kharif</i>	Rainfed	Red sandy sandy loam & medium Black	Medium	Low	Medium	Jowar, Groundnut, Brinjal, Tomato and Maize	II F.N.Jul,04	II F.N.Oct. 04	384.59	86
Castor	<i>Kharif</i>	Rainfed	Red sandy & medium Black	Medium	Low	Medium	Maize, Jowar, Little millet, Redgram, Sunflower and Groundnut	II F.N. Jun.04	I F.N. Nov.04	369.40	98
Soybean	<i>Kharif</i>	Rainfed	Medium Black & deep black	Medium	Medium	High	Sorghum, Maize, Cotton	II F.N.Jul.04	II F.N. Oct.04	168.7	24
Groundnut	<i>Rabi</i>	Irrigated	Sandy loam & loamy	Low	Medium	Low	Sorghum, Maize, Cotton	I F.N. Jan.05	I F.N. May,05	103.84	14
Sunflower	<i>Rabi</i>	Irrigated	Red sandy, sandy loam & medium Black	Medium	Medium	Medium	Jowar, Groundnut, Brinjal, Tomato and Maize	I F.N. Sept.04	I F.N. Dec. 04	87.40	08

**c) Crop performance**

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demonstration Yield (q/ha)				Increase in yield (%)	Cost of cash inputs (Rs/ha)		Cost of additional cash inputs (Rs/ha)
					Highest	Lowest	Average	Local check		Demo	Local check.	
1.	Groundnut	GPBD-4	10	10	27.50	13.75	18.87	15.5	21.74	26296	19900	6396
2.	Sunflower	RSFH-1	13	5.00	10.00	8.00	8.80	7.60	15	9825	6977	2848
3.	Castor	48-1	13	5.00	7.50	6.00	7.00	6.10	14	8158	6446	1712
4.	Soybean	JS-335	25	10.00	24.5	19.3	21.25	17.10	24	13520	8521	4999
5.	Groundnut	GPBD-4	08	10	26.50	22.00	24.72	18.50	33	36246	24650	11596
6.	Sunflower	RSFH-1	13	5.00	8.75	6.25	7.16	4.60	55	8306	4110	4196

**(B) Pulses****a) Details of implementation**

Sl. No.	Crop	Year	Season	Area (ha)		No. farmers/ demonstration			Remarks
				Proposed	Actual	SC/ST	Others	Total	
1.	Redgram	2004-05	<i>Kharif</i>	10	10	04	21	25	Sanctioned FLDs have been implemented
2.	Greengram	2004-05	<i>Kharif</i>	10	10	03	22	25	
3.	Blackgram	2004-05	<i>Kharif</i>	10	10	03	22	25	
4.	Bengalgram	2004-05	<i>Rabi</i>	10	10	02	15	17	

**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)	No. of rainy days
				N	P	K					
Redgram	<i>Kharif</i>	Rainfed	Alfisols	Low	Medium	Medium	<i>Rabi</i> Jowar, Cotton, Groundnut	I F.N.July,04	II F.N.Dec.04	407.15	91
Greengram	<i>Kharif</i>	Rainfed	Alfisols and Vertisols	Medium	Medium	Medium	Maize, Ragi, Sorghum, Cotton	I F.N. July,04.	II F.N.Sept.04	340.70	78
Blackgram	<i>Kharif</i>	Rainfed	Alfisols and Vertisols	Medium	Medium	Medium	Maize, Jowar	II F.N.June,04	I F.N. Sept. 04	426.03	113
Bengalgram	<i>Rabi/ Summer</i>	Rainfed	Vertisols	Medium	Medium	Medium	Maize, Ragi, Sorghum, Cotton, Paddy, Sunflower	I F.N. Nov.04	II F.N. Feb.05	34.98	08

c) Crop performance

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demonstration Yield (q/ha)				Increase in yield (%)	Cost of cash inputs (Rs/ha)		Cost of additional cash inputs (Rs/ha)
					Highest	Lowest	Average	Local check		Demo.	Local check	
1.	Redgram	Asha (ICPL-87119)	25	10	8.00	4.50	6.55	4.42	48	9820	4916	4904
2.	Greengram	S-4	25	10	10.00	2.50	7.30	3.75	94	2350	2250	100
3.	Blackgram	TAU-1	25	10	9.00	7.90	8.10	6.90	17	10460	8018	2442
4.	Bengalgram	Bheema	25	10	75.50	6.00	6.75	5.70	18	5363	2952	2411

C) Cereals

a) Details of implementation

Sl. No.	Crop	Year	Season	Area (ha)		No. farmers/ demonstration			Remarks
				Proposed	Actual	SC/ST	Others	Total	
1.	Sorghum	2004-05	Kharif	10	10	04	21	25	Sanctioned FLDs have been implemented

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)	No. of rainy days
				N	P	K					
Sorghum	Kharif	Rainfed	Alfisols and Vertisols	Medium	Medium	Medium	Bengalgram, Cotton. Maize	II F.N. June, 04	II F.N. October, 04	408.2	75

c) Crop performance

Sl. No.	Demo.	Variety	No. of farmers	Area (ha)	Demonstration Yield (q/ha)				Increase in yield (%)	Cost of cash inputs (Rs/ha)		Cost of additional cash inputs (Rs/ha)
					Highest	Lowest	Average	Local check		Demo.	Local check	
1.	Sorghum	CSH-16	25	10	7.25	7.25	7.25	6.00	20	1200	1600	400

**D) Front Line Demonstrations on Horticulture**

**a) Details of implementation**

Sl. No.	Crop	Year	Season	Area (ha)		No. farmers/ demonstration			Remarks
				Proposed	Actual	SC/ST	Others	Total	
1.	Banana	2004-05	<i>Kharif</i>	01	01	00	01	01	Sanctioned FLDs have been implemented
2.	Aster	2004-05	<i>Kharif</i>	01	01	00	03	03	

**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)	No. of rainy days
				N	P	K					
Banana	<i>Kharif</i>	Irrigated	Vertisols	Medium	High	High	Maize	I F.N. June, 05	Yet to be harvested	546.42	112
Aster	<i>Kharif</i>	Irrigated	Alfisols	Low	Medium	Medium	Onion	I F.N. December, 04	I F.N. April, 05	61.58	09

**c) Crop performance**

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demonstration Yield (g/ha)				Increase in yield (%)	Cost of cash inputs (Rs/ha)		Cost of additional cash inputs (Rs/ha)
					Highest	Lowest	Average	Local check		Demo.	Local check	
1.	Banana	Robusta	01	01	" Crop is in grand growth phase "							
2.	Aster	Kamini, PG. Purple and Poornima	03	01	125	90	105	70	50	8000	4500	3500

## E) Analytical Review of Component demonstrations

### I. Oil Seeds

Crop	Season	Farming situation	Component	Technical intervention	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif	Rainfed	1. Seed/ variety	Improved variety GPBD-4	18.87	15.50	21.74
			2. Fertilizer Management	1. RDF –25 : 50 : 25 2. Gypsum application - 500 kg /ha			
			3. Plant Protection	Seed treatment with <i>Trichoderma</i> 4 g./kg seed			
Sunflower	Kharif	Rainfed	1. Seed/ variety	Improved variety RSFH-1	8.80	7.60	15.78
			2. Fertilizer Management	RDF –35: 50 : 35			
			3. Plant Protection	Seed treatment with Imidacloprid @5g/kg			
Castor	Kharif	Rainfed	1. Seed/ variety	Improved variety 48-1	7.00	6.10	14.75
			2. Fertilizer Management	RDF – 35:35:25			
			3. Plant Protection	Semilooper Management with Chloropyriphos @ 2 ml/ lt			
Soybean	Kharif	Rainfed	1. Seed/ variety	Improved variety JS-335	21.25	17.10	24.20
			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 <sub>4</sub> @ 12 kg/ha.			
Groundnut	Rabi/ Summer	Irrigated.	1. Seed/ variety	Improved variety GPBD-4	24.72	18.50	33.62
			2. Fertilizer management	1.RDF – 25:50:25 2.Gypsum application – 500 kg/ha			
			3. Plant Protection	Seed treatment with <i>Trichoderma</i> @ 4 gm/kg seeds			
Sunflower	Rabi/ Summer	Irrigated.	1. Seed/ variety	Improved variety KBSH-1	7.16	4.60	55.65
			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			

## 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	6.55	4.42	48.19
			2. Fertilizer Management	RDF – 25 : 50 : 00			
			3. Plant Protection	1. Seed treatment with <i>Trichoderma</i> @ 4 gm/kg seed. 2. IPM practices			
Greengram	Kharif	Rainfed	1. Seed/ variety	S-4	7.30	3.75	94.67
			2. Fertilizer Management	RDF – 25:50: 00			
			3. Plant Protection	1.Powdery mildew management with Bavistin @ 1g/l. 2.Control of rust with mancozeb @ 2 g/L.			
Blackgram	Kharif	Rainfed	1. Seed/ variety	Improved variety TAU-1	8.10	6.90	17.39
			2. Plant Protection	1.Powdery mildew management with Bavistin @ 1 g/l. 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	6.75	5.70	18.42
			2. Fertilizer Management	RDF– 25:50:00			
			3. Plant Protection	1. <i>Trichoderma</i> seed treatment @ 4 g/kg 2. Control of pod borer with malathion			
			4. Cultural practice	Nipping at 30-40 DAS			

### F) Technical Feed back on the demonstration technologies

- Nipping in Redgram increased yields due to increased number of lateral branches.
- Demonstrated improved varieties had greater growth and yield attributes.
- 2% Urea spray in Soyabean increased seed setting and yields.
- ZnSO<sub>4</sub> application increased yields in Oil seed crops
- 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 Front Line Demonstrations**

Sl. No.	Activity	No. of activities organised	Date	Number of participants
1	Field days	05	29-10-04	300
			10-11-04	69
			22-11-04	61
			02-12-04	100
			22-12-04	80
2	Farmer's Training	04	20.10.04	25
			04.11.04	20
			13.11.04	27
			17.12.04	21
3	Media coverage	07	31.10.04	
			12.11.04	
			24.11.04	
			04.12.04	
			24.12.04	
			11.09.05	
			13.09.05	

**(I) Results of FLDs on Cereals, Horticultural Crops and allied enterprises**

**Cereals**

Sl. No.	Season & Year	Crop/ Enterprise	Area (ha)		No. of farmers / demo.	Remarks
			Sanctioned	Implemented		
1.	Khariif 2004-05	Sorghum	10	10	25	Sanctioned FLDs have been Implemented
<b>Total</b>			<b>10</b>	<b>10</b>	<b>25</b>	

**Horticultural Crops**

Sl. No.	Season & Year	Crop/ Enterprise	Area (ha)		No. of farmers/demo.	Remarks
			Sanctioned	Implemented		
1.	Khariif 2004-05	Banana	01	01	01	Sanctioned FLDs have been Implemented
2.	Khariif 2004-05	Aster	01	01	03	
<b>Total</b>			<b>02</b>	<b>02</b>	<b>04</b>	



**(J) Performance of FLDs on Cereals , Horticultural Crops and allied enterprises****Cereals :**

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demonstration Yield (q/ha)				Increase in yield (%)	Cost of cash inputs (Rs./ha)		Cost of additional cash inputs (Rs./ha)
					Highest	Lowest	Average	Local check		Demo.	Local check	
1.	Sorghum	CSH-16	25	10	7.25	7.25	7.25	6.00	20	1200	1600	400

**Horticulture crops:**

Sl. No.	Crop	Variety	No. of farmers	Area (ha)	Demonstration Yield (q/ha)				Increase in yield (%)	Cost of cash inputs (Rs./ha)		Cost of additional cash inputs (Rs./ha)
					Highest	Lowest	Average	Local check		Demo.	Local check	
1.	Banana	G-9	01	01	" Crop is in grand growth phase "							
2.	Aster	-	03	01	125	90	105	70	50	8000	4500	3500

**9. Results of On-Farm Testing****a) Number of on farm trials**

Crop / Enterprise	Varietal / feed evaluation	Nutrient/ feed management	Cropping system	Zero tillage	Weed management	Insect/ disease management	Total
Vegetables	-	-	-	-	-	03	<b>03</b>

b) Results of On - Farm trials

Sl. No.	Crop / Enterprise	Farming situation	Problem identified	Intervention	Treatment	Production per unit area (t/ha)	
1.	Onion	Irrigated	Purple blotch of onion	Management of Purple blotch of onion ( <i>Alternaria porri</i> )	T-1	Farmers' practice (Chlorothalonil @ 0.2%)	17.88
					T-2	RPP (Dithane M-45 @ 0.2%)	20.57 (15.04)*
					T-3	Alternate Practice (Difenaconazole @ 0.1%)	22.69 (26.90)*
2.	Tomato	Irrigated	Early blight of Tomato	Management of early blight of Tomato ( <i>Alternaria solani</i> )	T-1	Farmers' practice (Chlorothalonil @ 0.2%)	13.23
					T-2	RPP (Dithane M-45 @ 0.2%)	15.30 (20.13)*
					T-3	Alternate Practice (Difenaconazole @ 0.1%)	18.38 (38.92)*
3.	Brinjal	Irrigated	Shoot & fruit Borer	Management of Brinjal Shoot and Fruit Borer ( <i>Leucinodes arbonalis</i> )	T-1	<b>Farmers' Practice:</b> Use of mixed insecticides (Endosulfan + Monocrotophos or Endosulfan + Acephate or Monocrotophos + DDVP or Monocrotophos+ Pyrethroids)	12.00
					T-2	<b>RPP:</b> Soil application of Neem cake @ 2.5 q/ha in three split applications i.e. at the time of transplanting, 1 and 2 months after transplanting and four sprays of insecticides (Carbaryl/Malathion) along with Acaricide (Dicofol) in 15 days intervals	13.50 (12%)*
					T-3	<b>Alternate Practice:</b> Soil application of Neem cake @ 2.5 q/ha in three split applications i.e. at the time of transplanting, 1 and 2 months after transplanting and two sprays of Thiodiocarb 75 SP at 15 days interval at the time of flowering. Acaricide (Dicofol) was added in second spray.	14.53 (21%)*

\* % Increased in yield over farmers practice.

**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	Periodicity	Number of copies distributed
April -04	Quarterly	300

**(B) Literature developed / published**

Item	Title	Nos.	Author
<b>Research paper</b>	1. Effect of different Soil and water conservation measures on crop yields in Alfisols	19	Budihal R.A., Gowda D.S.M and Halakatti S.V.,
	2. Traditional agricultural knowledge of farmers of Northern Karnataka		Budihal R. A. and Halakatti S. V
	3. Impact of Groundnut Technology transfer under FLD in Northern Transitional Zone of Karnataka		Halakatti S.V., Gowda D.S.M. and Budihal R.A
	4. Use of Polythene Mulching in Groundnut		Gowda D.S.M., Halakatti S.V. and Budihal R.A
	5. Impact of Soil and water conservation measures on crop yields in Alfisols		Gowda D.S.M., Halakatti S.V. and Budihal R.A
	6. Watershed Development in Alfisols through soil conservation		Halakatti S.V., Gowda D.S.M. and Budihal R.A
	7. Effect of COT on yield and yield attributes of cauliflower		Hiremath S.M., Nagaraju H. R and Gowda D.S.M.,
	8. Effect of locations, spacing and fertilizer levels on growth and uptake of nutrients in paprika ( <i>Capsicum annum L</i> )		Hiremath S.M., Nagaraju H. R. and Gowda D.S.M.,
	9. Prevalence and intensity of Coconut diseases in Haveri district of Karnataka		Yadahalli K.B., Karabhantanal S.S., AND Hiremath S. M.,
	10. Survey on Cigatoka leaf spot diseases of Banana in Haveri district of Karnataka		Yadahalli K.B., Karabhantanal S.S., Hiremath S.M. and Gowda D.S.M
	11. Survey on Sugarcane red rot diseases in Haveri district of Karnataka		Yadahalli K.B., Karabhantanal S.S., Jayaprakash T.C. and Gowda D.S.M
	12. Survey on incidence of Onion stem twisting in Haveri district of Karnataka		Yadahalli K.B., Karabhantanal S.S., Jayaprakash T.C. and Gowda D.S.M
	13. Present status of Sugarcane diseases in Northern Karnataka		Yadahalli K.B.
	14. Screening of Sugarcane varieties against smut disease		Yadahalli K.B.
	15. Incidence of Pigeon pea wilt disease in Haveri district of Northern Karnataka		Yadahalli K.B., Karabhantanal S.S., Nagaraju H. R., Jayaprakash T. C. and Gowada D.S.M.
	16. Heat treated Sugarcane seed Nursery programme		Yadahalli K.B., Kulkarni S. A. and Kalaimani T.,
	17. Scenario of Sugarcane diseases in Northern Karnataka		Yadahalli K.B., Kulkarni S. A. and Karunanithi K.,
	18. Role of Mass media in transfer of Agricultural technologies		Halakatti S.V., Gowda D.S.M and Budihal R.A.,
	19. Stri shakti – A novel programme to empower women through self help groups in Karnataka		Gowda D.S.M., Halakatti S.V. and Budihal R.A.,
<b>Technical reports</b>	Progress reports of KVK	03	Training Organiser

<b>Popular articles</b>	1. Is India ready for predominance of Organic farming	22	Halakatti S.V.
	2. Importance of adoption of organic farming		Halakatti S. V. and Gowda D.S.M.,
	3. Chilli- Making life effulgent		Hiremath S. M., Jayaprakash T. C. and Gowda D. S. M.,
	4. Venilla : Then, Now		Hiremath S. M., Yadahalli K. B., Karabhantanal S. S. and Gowda D. S. M.,
	5. Integrated cultivation practices of cabbage		Hiremath S. M., Karabhantanal S. S., Vijayalaxmi T. S. and Gowda D. S. M
	6. Dahlia reduces the burden of Dyamajja		Hiremath S. M., Nagaraju H. R., Jayaprakash T. C. and Gowda D. S. M.,
	7. Formula for qualitative Onion seed production		Hiremath S. M., Jayaprakash T. C. and Yadahalli K. B.,
	8. Commercial Ornamental crop Dahlia		Hiremath S. M. and Gowda D. S. M.,
	9. Chilli seed production		Jayaprakash T.C., Arunkumar B., Jolli R. B. and Karabhantanal S. S
	10. Brinjal Shoot and Fruit Borer management		Karabhantanal S. S.,
	11. Management of Sorghum Shootfly		Karabhantanal S. S., Dodagoudar S. and Jayaprakash T. C.,
	12. Controlling Citrus mealybugs		Karabhantanal S. S. and Yadahalli K. B.
	13. Control of Cotton Boll worm		Karabhantanal S. S.,
	14. Management of Soil – How?		Nagaraju H. R., Hiremath S.M., and Gowda D.S.M.
	15. Provide Vitamins; evade Blindness		Vijayalaxmi K
	16. Blindness in children- Solution ?		Vijayalaxmi K
	17. Nutritive and therapeutic value of minor millets		Vijayalaxmi K
	18. Venilla – Cultivation		Yadahalli K. B., Karabhantanal S. S., and Gowda D. S. M.,
	19. Selection of seed canes and their production		Yadahalli K. B.,
	20. Management of pest and disease in Banana		Yadahalli K. B., Karabhantanal S. S., S. V. Halakatti, H. R. Nagaraju and Gowda D. S. M.,
	21. Management practices for Chilli disease		Yadahalli K. B., Karabhantanal S. S., S. V. Halakatti, H. R. Nagaraju and Gowda D. S. M.,
	22. Management of Mango disease		Yadahalli K. B., Karabhantanal S. S., Hiremath S. M., Jayaprakash T.C. and Gowda D. S. M.,
<b>Extension literature (Leaflets)</b>	1 Integrated pest management in cotton	06	Karabhantanal S. S., Yadahalli K. B. Jayaprakash T.C. and Gowda D.S.M
	2 Management of Brinjal Shoot and fruit borer		Karabhantanal S. S., Yadahalli K. B. and Gowda D.S.M.,
	3 Earthworm and vermicompost for organic farming		Karabhantanal S. S., Yadahalli K. B., Jayaprakash T.C. and Gowda D.S.M.,
	4 Management of Tomato fruit borer		Karabhantanal S. S., Yadahallim K. B. and Gowda D.S.M.,
	5 Management of dominant pests of onion and Garlic		Karabhantanal S. S., Yadahalli K. B., and Gowda D.S.M.
	6 Nutritive and therapeutic value of minor millets		Shanthakumar G. and Vijayalaxmi K.,

## 11. Success stories/ Case studies

### Success story of Sri Shivappa Basappa Hadimani of Magod, Ranebennur

Sri Shivappa Basappa Hadimani aged 60 years, resident of Magod village of Ranebennur taluk had education only upto V standard. His major source of income is through agriculture. He is head of the joint family constituting a total of 20 members, with land holding of 27 acres, of which 10 acres of land is irrigated.

Under Integrated Farming System (IFS) Sujala Project various components of agriculture, horticulture and animal husbandry were distributed through Krishi Vigyan Kendra (KVK) Hanumanamatti. Thirty Giriraja chicks of one month old were provided, which during the past 8 months, have laid more than 1000 eggs earning him an income of Rs.3000/-. Further eggs were allowed to hatch and chicks obtained subsequently were sold @ Rs.50/- for each bird of 1 month old. Further aged birds were sold as broiler to local market @ Rs. 250 per bird. The total accrued earning from this poultry component was Rs.15000/-. Indirect benefits from rearing of these birds has been in the form of controlling snail population and weeds problem in beetelvine garden which has resulted in reduced cost of cultivation and eco-friendly production of leaves.

Another component *viz.*, earthworms were provided for initiating vermicomposting. He has produced abundant vermicompost. This has helped him to increase organic material addition to his fields. He also produces wormiwash which is used as growth regulator to the plants. Further excess compost is sold locally, earning him additional income. Propagation of worms has also increased production capacity of compost.

Encouraged by the good results, farmers of nearby villages have shown keen interest to rear Giriraja and Girirani birds as well as to establish vermicompost and wormiwash units in their fields.

### Success of Suma Salimath, Entrepreneur in the field of child care

Early childhood care and education service centres increased geometrically during the last decade. The demand for early childhood care and education programs continue to increase not only in response to the growing requirement for out-of-home child care but also due to realization of the critical importance of educational experiences during tender ages for curricular advancement of the child. Suma Salimath, (29 years) is a house wife and eldest daughter – in-law of joint family of Benakanakonda village who now reside in Ranebennur. She was very much interested to work and support her family. By observing the demand for early childhood education centre. She approached Krishi Vigyan Kendra, Hanumanamatti and took consultancy. She underwent 3 days on-campus training programme on "Establishment and Scientific Management of Early Childhood Education Centres" from 11.12.2002 to 13.12.2002. Further her experience at wonderful world of creche at UAS, Dharwad, during her visit to Dharwad, strengthened her will to proceed further. Initially she conducted baseline survey to know the probable number of children, who may join her creche. With the support of local Mahila Mandal, Navachetana she started "Funfair early childhood education centre" in Umashankar Nagar, extension area, where Anganawadi centre had not been established. She started the centre on a small scale with only 10 children. The creche got parents/ public acceptance very soon because of her care, dedication and novel educational methodologies. This inspired her to go in for expansion of creche and she approached Karnataka State Social Welfare Board for further financial assistance and Krishi Vigyan Kendra, for technical support. Upon financial sanction for creche unit, she started earning net profit of Rs.1000/- per month which has now swelled upto Rs.2,200/-pm.

### Success of Entrepreneurs In Incense Stick Production

Unemployment is the common problem among the educated rural youth, In this age of scarce employment opportunities. The rural youth require training and motivation for self-employment. These trainings should impart

technical skills, which are feasible, viable and can be adopted locally. Production of hand rolled incense sticks was not very much popular in this area. Identifying this lacuna Krishi Vigyan Kendra arranged training on this subject targeting the rural unemployed youth. Mr. Basavaraj Salageri, Mr. Krishnamurthy Adur, and Mr. Manju Neelappa Havanur were among the trainees who have taken up production. Basavaraj on successful completion of the training took to this enterprise initially investing Rs.100/- . He earned Rs.300/- profits per week. He prepared variety of hand rolled incense sticks with Champa, Mogra, Kevda and Sandal scents, colour sticks, lobana sticks, sandal sticks and Masala sticks, earning around 1800 – 2500/- per month. Krishnamurthy and Manju have also started the enterprise in their homes, taking help of family members and are earning Rs.2000/- per month.

Annapurneshwari SHG of Havanur Panchayat is blessed with a group of active women and able leadership of Mrs. Annapurna Jadhav Havanur is the most commonly visited pilgrimage by the surrounding farming community. They have utilized this aspect of being a touring destination, for production and marketing of various kinds of incense sticks. Over the period of time, they have honed this skill and become pioneers in this enterprise of incense stick production adopting innovative ideas. They started procuring raw materials from Mysore/Bangalore in order to minimize the production cost. The group produces seven different kinds of agarbatties, which are on par with the best branded ones available in the market with very good consumer base. Trainings offered by the KVK on alternative packing and marketing that gave them the idea of substituting with ready made scent with DP oil and perfume concentrate. This imparted a pleasant, unique fragrance to the sticks and helped in boosting its sale. Mrs. Annapurna is the member secretary of the group and she proved her ability to lead from the front. It is on her initiative that they have started marketing their products at Bangalore, where they fetch higher price. The group members are earning a net profit ranging from Rs. 800 to 2900 per month, from this enterprise.

Grasim Janasheva Trust women groups stamped their authority in incense stick production becoming a prominent organisation in the rural development scenario of Ranebennur taluk. Members of Durgadevi SHG of Nadiharalahalli, after undergoing the training programme on "Agarabatti production and marketing" at KVK, Hanumanamatti in June, 2002, expressed their willingness to start this as a small enterprise to utilize their spare time based on their sheer interest. They initiated production of incense sticks and started marketing in rural areas through small vending retail shops in plastic packets each costing Rs. 1/-, 2/- and 5/- to understand the demand and consumer preference. Thus they started Agarabatti production unit after submitting project proposal to M.G. Bank for obtaining financial subsidy and support. The existing facilities such as their own houses and labour from women members. The raw materials were procured from Ranebennur (nearest city market). A weekly income of Rs.3900/- and 5200/- were made as net profit respectively from each unit.

### **Entrepreneurs in Mushroom Cultivation**

Mr. Karabasappa Jadhav, a commerce graduate with lot of enthusiasm and enterprising qualities, ventured into several enterprises for self employment but all ended up failure. He contacted Krishi Vigyan Kendra, Hanumanamatti and attended some vocational trainings here. The trainings provided him with the incentive for initiating microenterprises like composting and Mushroom cultivation on an experimental basis at his home, making use of a small room. Encouraged by the market demand, he decided to boost up the production. Keeping this in mind, he approached KVK for further technical assistance. In order to assess the resources he had, the KVK staff went for an inventory appraisal and found that a site besides his house was lying idle and suggested to convert it into a mushroom shed. He opted chemical sterilization technique for obtaining aseptic paddy straw.

He adopted novel marketing strategies such as direct and continuous supply to prospective restaurant after packing them in poly bags with proper labels mentioning nutritive value of mushrooms.

The mushroom production unit was further strengthened by the construction of a low cost mushroom shed with a production capacity of 20 beds per month. He is earning a monthly income of Rs. 2500 – 3000/- out of mushroom unit alone. He uses the spent mushroom substrate as the raw material for another complimentary enterprise of vermicomposting. After realizing the keeping quality and shelf life of the milky mushroom, under the guidance of KVK scientists, he is planning to start milky mushroom production unit also in due course of time.

## 12. Constraints

### a) Administrative

### b) Financial

- Financial assistance is required for purchase of equipments like silent generator, digital handcam, DVD and LCD .
- 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 , Analytical laboratory, Vermicomposting units and Biopesticide laboratory.

## 13. Functional Linkage with Different organization:

Functional linkage with different organizations maintained for mutual co-operation and to facilitate various programmes of Krishi Vigyan Kendra.

Name of organisation	Nature of Linkage
1. State Dept. of Agriculture	Conducting training programmes, Demonstration, seminars and field days.
2. State Dept. of Horticulture	Involving in securing seedlings of various species of horticultural plants. Conducting training programmes , demonstrations and field days.
3. Rural Development Institutes 4. (Zilla & Taluk Panchayats)	Conducting training programmes in respect of renewable energy and watershed programmes.
4.State Dept. of Animal husbandry & Veterinary Services	In conducting Animal health camps and off campus training programmes.
5. Karnataka Milk Federation	In conducting Animal health camps and off campus training programmes.
6. Women and Child Development Department	Conducting trainings for farm women.
7. Karnataka Oil Seeds Federation	Conducting trainings and demonstrations
8. NABARD, Vijaya Bank, State Bank of India, M.G. Bank,Syndicate Bank.	Established Vikash Vahini Club at Kakol, Dandigihalli, Kudapali and Kalkoti . Each club has 30 to 40 members and they are being trained at KVK and constantly involved in guidance of different technologies.
9. IDS, SPS and NEEDS.	Conducting Training Programmes and Demon.
10. Mitra Kisan and Gopal of NWDPR	Conducting training Programmes and Demon
11. Bharat Agro Industries Foundation	Conducting training programmes
12. GRASIM Janakalyan Trust	Conducting village level trainings.
13. Sheep and Wool Development Board	Conducting trainings on sheep production and management
14. Raita Samparka Kendra	19 RSK established in Haveri district are being utilized for FLD ,training programmes, OFT and Extension Activities
15.State Dept. of Watershed	Conducting training programmes, IFS Demonstration, Seminars and Field days.
16.JSYS	Conducting training programmes, Demonstration, Seminars and Field days.

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

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

**16. Utilisation of hostel facilities**

Accommodation available (No. of beds):75

Months	No. of trainees stayed	Trainee days (Days stayed)	Reason for short fall (if any)
April 2004	17	02	No short fall was observed keeping in view the existing possibilities
May 2004	00	00	
June 2004	41	05	
July 2004	224	18	
August 2004	219	16	
September 2004	31	03	
October 2004	98	08	
November 2004	88	07	
December 2004	67	14	
January 2005	71	07	
February 2005	59	10	
March 2005	00	00	

**17. Indicate any innovative technology or any innovative methodology of Transfer of Technology developed 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 Indicate any indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)**  
**Indigenous Technologies identified:**

The following indigenous technologies are being practiced by the farmers in the KVK operational area.

- Planting of turmeric all around the vermicompost pits, helps in avoidance of ants / termite menace.
- Use of lemon grass as a mosquito repellent.
- Use of ash / neem leaves for control of storage pests
- Odour of coriander and fennel to avoid menace of wild pigs.
- Crop rotation with sorghum after garlic, increases *Rabi* sorghum yield.
- Use of Human hairs for control of wild pigs in Maize.
- Use of common salt for control of flower/ fruit drop in Chilli.



**19. Indicate the specific training need tools/ methodology followed for****For Farmers/ Farm women/ Rural Youth**

- a) Participatory Rural Appraisal method .
- b) Field visits
- c) Linkage with developmental departments and NGO's.
- d) Survey method.

**For Service personnel:**

- a) Bimonthly workshops
- b) NARP workshops
- c) Extension workshops

**20. List of 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 the seed/ seedling produced and sold to the farmers****(a) FOR OILSEEDS**

Sl. No.	Crops	Variety	Qty. (Quintals)
I.	Groundnut	GPDB-4	710
II.	Groundnut.	TAG-24	80
III.	Groundnut	DH-86	105
IV.	Groundnut	VRI-2	85
<b>Total</b>			<b>980</b>

**(b) FOR PULSE CROPS**

Sl. No.	Crops	Variety	Qty. (Quintals)
1	Redgram	Asha	190
2	Bengalgram	Bheema	175
<b>Total</b>			<b>365</b>

**(c) FOR CEREAL CROPS**

Sl. No.	Crops	Variety	Qty. (Quintals)
1.	Little millet	Sukshema	335
2.	Foxtail millet	HMT-100-1	245
3.	Finger millet	GPU-28	18
4.	Sorghum	Pule yeshoda	120
5.	Sorghum	M-35-1	200
<b>Total</b>			<b>918</b>

d) FOR FRUIT/ VEGETABLE/PLANTATION CROPS etc.

Sl.No	Crops	Variety	Qty.(Nos.)
<b>I FRUIT CROPS</b>			
1.	Sapota	DSH-1	250
		DSH-2	200
2.	Guava	Lucknow-49	18
3.	Lime	Local	50
4.	Custard apple	Local	70
<b>Total</b>			<b>588</b>
<b>II VEGETABLE CROPS</b>			
	Drumstick	Dhanraj	200
<b>Total</b>			<b>200</b>
<b>III SPICE CROPS</b>			
	Curry leaf	Suwasini	1350
<b>Total</b>			<b>1350</b>
<b>Grand Total</b>			<b>2138</b>

22. Number of Scientific Advisory Committee meetings : 01  
Date of meetings : 27-12-2004

Sl. No.	Salient Recommendations	Action taken
1.	Quarterly Release of News letter containing Work progress and future plans	First issue released on 17.08.04
2.	Conducting Field days on " Aromatic plants and essential oils" in Dr. S.S. Matad field at Hosaratti village.	Field days will be Conducted during last week of October,2005.
3.	Conducting Integrated farming system field days in Shri M.S. Arali field at Hiremaganur village	Fields days are being planned
4.	During ON and OFF campus training programmes enumeration of scheduled caste and scheduled tribes beneficiaries should be done separately and mentioned.	Enumeration of SC and ST participants in trainings is being done separately.
5.	Draft Copy of Impact analysis of minor millets is to be sent to Director of Extension .	Will be Submitted during Annual Review meeting.
6.	Proposal for conducting FLD On Cowpea during Rabi season to be sent to Zonal Co-ordinator, Bangalore	Proposal will be Submitted during Oct.-05.
7.	Every report regarding the KVK should contain the amount of rainfall in the district received during the reporting period.	Rainfall data is being presented in every report
8.	More stress should be given on extension activities on Drought Management, Ground water recharge, Water harvesting, Organic Farming, Use of Biofertilizers, Plant origin pesticides, Vermicompost and Agro forestry systems.	Conducted Kissan mela at Kakol on Groundwater recharge. Off campus training are being conducted on enlisted topics.
9.	Under revolving fund , Seed production of minor oil seeds like Sesamum, Niger and Linseed in farmer's fields and supplying the seeds based on the farmer's requirement.	Seed production and procurement are planned for next season.
10.	While reporting the results of FLD's along with the crop and variety other technology also should be mentioned clearly.	All technology advocated is also mentioned
11.	Celebrating the world environment day and world tobacco day.	Special days are commemorated with special functions
12.	More emphasis on Front Line Demonstration on Soybean crop.	10 ha. FLD on soybean have been implemented.
13.	Giving the complete technical information on spreading type of Groundnut (Murdor local) before taking up the large scale seed production of Groundnut variety (GPBD-4).	Ground realities are advocated to farmers regarding each varieties.
14.	Conducting the Front Line Demonstration on Horticulture, Animal Science and farm machinery.	These will be Implemented
15.	Conducting more number of field day in effective number.	At least one Field day for each FLD crop will be conducted.

16.	Proposal to be sent to zonal coordinator, Transfer of Technology, Bangalore, for purchasing the minibus to carry the farmers to visiting the experimental plots and field days.	Proposal is yet to be submitted.
17.	Propagating the activities of KVK, through mass media.	KVK activities are being given wide coverage through mass media.
18.	More stress to increase the production of horticultural seedlings.	Available resources are utilized to maximum extent for production of seedlings.
19.	Conducting more training Programmes at KVK in Collaboration with women and child development dept. and Veterinary dept.	Implemented
20.	Creating awareness through training Programmes on ground water recharge of bore wells.	Implemented
21.	Wide publicity should given to the farmers' success stories particularly those who have involved in resource conservation and income generating activities.	Implemented
22.	Proposal to include Sesamum and Niger under FLD to be sent to Zonal Coordinator, Bangalore.	Proposal has been sent to ZC for approval
23.	Training demonstrations should be taken up in one/two villages of each taluk compulsory.	Implemented
24.	Proposal to be sent to the Zonal Coordinator Bangalore for purchasing 2 Tailoring and 2 Embroidery machines.	Proposal has been sent to ZC for approval

### 23. Impact of training Programmes .

Name of specific technology/skill transferred	No. of trainees	% of adoption	Change in income (Rs) \$	
			Before training (Rs/ Unit)	After training (Rs/ Unit)
Production packing and marketing of incense sticks ( hand rolled Incense sticks)	365 (16)*	25	6500.00	19000.00
Candle Preparation	157 (8)	06	4500.00	9750.00
Tailoring and Hand embroidery	39 (4)	51	6000.00	11500.00
Preparation of Masala powders for various culinary uses	35 (2)	20	5500.00	11500.00
Preparation of House hold sanitary items	56 (3)	36	7500.00	15500.00
Establishment of Scientific management of early childhood education centres	22 (1)	45	7500.00	20000.00
Mushroom cultivation	147 (6)	10	4800.00	10500.00
Vermicompost Production	455 (10)	10	5100.00	11400.00

\* Numbers in parenthesis indicate number of training programmes organised.

\$ Average values are presented. Actual values are within range of  $\pm 20\%$

### 24. Field activities

- |      |                               |   |    |
|------|-------------------------------|---|----|
| i.   | Number of villages adopted    | : | 10 |
| ii.  | No. of farm families selected | : | 48 |
| iii. | No. of survey/ PRA conducted  | : | 10 |

**25. Extension Activities**

Sl. No.	Activities	No. of prg.	Date(s)	No. of beneficiaries (Farmers/Rural Youths)			No. of Extension functionaries		
				M	F	Total	M	F	Total
1	Kissan melas	01	01.10.04 to 04.10.04	30000	10000	40000	6000	4000	10000
2	Field days	07	29.10.04	110	10	120	10	01	11
			06.11.04	70	30	100	07	02	09
			10.11.04	90	20	110	09	02	11
			10.11.04	66	03	69	06	01	07
			22.11.04	58	03	61	05	01	06
			02.12.04	70	30	100	07	01	08
			24.12.04	80	20	100	08	01	09
3	Radio talks	14	08.10.04	1 Trichoderma Production and its uses					
			26.10.04	2 Vermiculture and its importance					
			04.12.04	3 Production of clean and quality milk and preparation of milk products					
			24.12.04	4 Chilli diseases and its remedies					
			11.01.05	5 IPM for summer crops					
			18.01.05	6 Chrysanthemum and jasmine cultivation					
			27.01.05	7 Importance of field demonstration in agriculture					
			21.03.05	8 Banana diseases and its remedies					
			18.04.05	9 Role of trap crops in pest management					
			19.04.05	10 Papaya cultivation					
			28.04.05	11 Safe food grain storage methods					
			03.07.05	12 Tomato diseases & its remedies					
			05.07.05	13 Cultivation of leaf y vegetables					
			28.07.05	14 Role of SHG's in Rural Development					
	TV Shows	02	21.11.04	1 Management of soil borne diseases through seed treatments					
05.03.05			2 Management of powdery mildew disease in papaya						
4	Film shows	30	-	195	332	527	19	30	49
5	Exhibitions	02	01.10.04 to 04.10.04	30000	10000	40000	6000	4000	10000
			14.11.04 to 27.11.04	5,00,000	2,50,000	7,50,000	50,000	25,000	75,000
6	News coverage	10	05.11.04	1. Higher yield in Banana through tissue culture.					
			24.11.04	2. Science conference : State level selection					
			07.12.04	3. Call for integrated pest managemnt in Cotton					
			07.12.04	4. Economic empowerment of women					
			08.12.04	5. Tips for usage of good cultivars of Cotton					
			28.12.04	6. Inauguration of Redgram field day					
			06.01.05	7. Co-operation – a necessity for Agriculture development					
			19.06.05	8. Suggestions for utilization of Cotton Schemes					
			04.04.05	9. Existence Farmer's TOT clubs					
			26.07.05	10. Demonstration of Vermicomposting					

7	Popular articles	22	Oct.-04	1. Is India ready for predominance of Organic farming					
			Oct.-04	2. Importance of adoption of organic farming					
			Nov.-04	3. Chilli- Making life effulgent					
			Nov.-04	4. Venilla : Then, Now					
			Nov.-04	5. Integrated cultivation practices in cabbage					
			Dec.-04	6. Dahlia reduces the burden of Dyamajja					
			Dec.-04	7. Formula for qualitative Onion seed production					
			March-05	8. Commercial Ornamental crop Dahlia					
			March-05	9. Chilli seed production					
			Jan—05	10. Brinjal Shoot and Fruit Borer					
			Oct.-2004	11. Management of Sorghum Shootfly					
			Dec.-2004	12. Controlling Citrus mealybugs					
			Dec.-2004	13. Control of Cotton Boll worm					
			Dec.-2004	14. Management of Soil – How?					
			Dec.-2004	15. Provide Vitamins; evade Blindness					
			Dec.-2004	16. Blindness in children- Solution ?					
			Feb. – 2005	17. Nutritive and therapeutic value of minor millets					
			Dec.-2004	18. Venilla – Cultivation					
			Dec.-2004	19. Selection of seed canes and their production					
			July – 2005	20. Management of pest and disease in Banana					
			Aug- 2005	21. Management practices for Chilli disease					
			Aug. – 2005	22. Management of Mango disease					
8	Extension literature	06	Oct.-2004	Nutritive and therapeutic value of minor millets					
			Dec.-2004.	Integrated pest management in Cotton					
			Dec.-2004.	Management of Brinjal Shoot and fruit borer					
			Dec.-2004.	Earthworm and Vermicompost for organic farming					
			Dec.-2004.	Management of Tomato fruit borer					
			Dec.-2004.	Management of dominant pests of Onion and Garlic					
9	Advisory services	180		90	50	140	30	10	40
	<b>Total</b>	<b>274</b>		<b>560829</b>	<b>270498</b>	<b>831327</b>	<b>62101</b>	<b>33049</b>	<b>95150</b>

<b>Animal Health Camps.</b>	04	Cows 240	Buffaloes 50	Calves 95	Other Animals 50	Total Animals 435
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#### 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. Utilisation of funds under FLD on Oilseed (Rs. in Lakhs)**

Item	Sanctioned by ZC		Released by ZC		Expenditure		Unspent balance as on 1st April 2005
	Kharif 2004	Rabi 2004-05	Kharif 2004	Rabi 2004-05	Kharif 2004	Rabi 2004-05	
<b>Inputs</b>	63000	33250	63000	33250	53674	31115	11461
<b>Extension activities</b>	13500	7125	13500	7125	9895	4686	6044
<b>TA/DA/POL etc.</b>	9000	4750	9000	4750	2871	1651	9228
<b>TOTAL</b>	<b>85500</b>	<b>45125</b>	<b>85500</b>	<b>45125</b>	<b>66440</b>	<b>37452</b>	<b>26733</b>

**28. Utilisation of funds under FLD on Pulses (Rs. in Lakhs)**

Item	Sanctioned by ZC		Released by ZC		Expenditure		Unspent balance as on 1st April 2005
	Kharif 2004	Rabi 2004-05	Kharif 2004	Rabi 2004-05	Kharif 2004	Rabi 2004-05	
<b>Inputs</b>	42000	17500	42000	17500	11725	17500	30275
<b>Extension activities</b>	6000	2500	6000	2500	6800	3000	-1300
<b>TA/DA/POL etc.</b>	57000	23750	57000	23750	19886	22319	38545
<b>TOTAL</b>	<b>85500</b>	<b>45125</b>	<b>85500</b>	<b>45125</b>	<b>66440</b>	<b>37452</b>	<b>26733</b>

**29. Utilization of KVK funds during the year 2004-05 and 2005-06 (upto Aug-2005) (year-wise separately) (current year and previous year)**

**2004-2005**

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A</b>	<b>Recurring items</b>			
1.	<b>Pay and allowances</b>	24.00	24.00	23.60
2.	<b>Travelling allowances</b>	1.00	1.00	1.00
3.	<b>Contingencies</b>			
a)	Stationary, Telephone, Postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News paper & Magazine)	0.80	0.80	0.79
b)	POL, Repair of vehicle, tractor and Equipments	0.90	0.90	0.89
c)	Meals/refreshment for Trainees (Ceiling up to Rs.40 per day per Trainee be maintained)	1.00	1.00	0.67
d)	Training materials (Posters, charts, and demonstration materials including chemicals etc. required for conducting training.)	0.35	0.35	0.29
e)	Front Line Demonstrations except Oilseeds and Pulses (Minimum 30 demonstrations in a year).	0.25	0.25	0.05
f)	On Farm Testing (On need based location specific and newly generated information in the major production system of the area).	0.25	0.25	0.17
g)	Training of Extension functionaries	0.25	0.25	0.09
h)	Maintenance of Building	0.20	0.20	0.20
i)	Establishment of Soil, Plant and Water Testing Laboratory	3.20	3.20	3.20
j)	Library	-	-	-
	<b>TOTAL (A)</b>	<b>32.20</b>	<b>32.20</b>	<b>30.95</b>
<b>(B)</b>	<b>Non-Recurring Items</b>			
1.	Works: (Administrative building, trainees hostel, staff quarters, demonstration units including borewell, irrigation channels and threshing yard etc.)	8.00	8.00	8.00
2.	Equipments, Furniture and Furnishing	5.95	5.95	5.72
3.	Establishment of Soil, Plant and Water Testing Laboratory	8.60	8.60	8.60
4.	Vehicles (Four wheeler/Two wheeler)	0.40	0.40	0.40
5.	Library (Purchase of assets like books and Journals)	0.10	0.10	0
	<b>TOTAL (B)</b>	<b>23.05</b>	<b>23.05</b>	<b>22.72</b>
<b>C</b>	<b>Revolving fund</b>	0.00	0.00	0.00
	<b>Grand Total (A+B+C)</b>	<b>55.25</b>	<b>55.25</b>	<b>53.67</b>

**2005-2006 (Up to Aug. 2005)**

Sl. No.	Particulars	Sanctioned	Expenditure
<b>A</b>	<b>Recurring items</b>		
1.	Pay and allowances	24.00	791939
2.	Travelling allowances	1.00	36500
3.	Contingencies		
a)	Stationary, Telephone, Postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News paper & Magazine)	1.50	47000
b)	POL, Repair of vehicle, tractor and Equipment	1.00	39000
c)	Meals/refreshment for Trainees (Ceiling up to Rs. 40 per day per Trainee be maintained )	0.75	7000
d)	Training materials (Posters, charts, and demonstration materials including chemicals etc. required for conducting training.)	0.40	00
e)	Front Line Demonstrations except oilseeds and pulses (Minimum 30 demonstrations in a year).	0.50	10775
f)	On Farm testing (On need based location specific and newly generated information in the major production system of the area).	0.30	12800
g)	Training of Extension functionaries	0.25	00
h)	Maintenance of Building	0.20	00
i)	Establishment of Soil, Plant and Water Testing Laboratory	0	00
j)	Library	0.10	00
	<b>TOTAL(A)</b>	<b>30.00</b>	<b>945014</b>
<b>(B)</b>	<b>Non-Recurring Items</b>		
1.	Works: (Final installments for Farmers hostel)	3.30	00
2.	Equipments and Furniture	2.00	00
3.	Establishment of Soil, Plant and Water Testing Laboratory		00
4.	Library (Purchase of assets like books and Journals)	0.10	00
	<b>TOTAL(B)</b>	<b>5.40</b>	<b>00</b>
<b>C</b>	<b>Revolving fund</b>	1.00	00
	<b>Grand Total (A+B+C)</b>	<b>36.40</b>	<b>946314</b>

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

Name of the Revolving fund	Net balance in hand as on 1 <sup>st</sup> April of every year			Remarks
	2002-03	2003-04	2004-05	
Horticulture	0.44	0.39	1.00	* Includes value of stock /Assets created
Trichoderma	0.32	0.35	0.34	
Seed Production	0.47	0.68	1.85	
Vermicompost	0.12	0.13	0.14	
Training	00.0	0.20	1.34	

Name of the Revolving fund	Year	Opening balance as on 1 <sup>st</sup> April	Expected income		Net balance in hand as on 1 <sup>st</sup> April of each year
			Fixed deposit	Farm income	
Horticulture Nursery	April 2001 to March 2002	35,953.00	00	00	44,271.00
	April 2002 to March 2003	44,271.00	00	00	44,125.23
	April 2003 to March 2004	44,271.00	00	00	39155.00
Seed Production	April 2001 to March 2002	50,152.00	00	00	47,718.00
	April 2002 to March 2003	52,495.46	00	00	68,351.01
	April 2003 to March 2004	47718.00	00	00	71352.00
Trichoderma	April 2001 to March 2002	30,261.00	00	00	32,657.00
	April 2002 to March 2003	32657.00	00	00	32,657.00
	April 2003 to March 2004	32657.00	00	00	33305.00
Vermicompost	April 2001 to March 2002	10,000.00	00	00	12,149.00
	April 2002 to March 2003	12,149.00	00	00	12,14.32
	April 2003 to March 2004	12,149.32	00	00	13,275.00
Training	April 2003 to March 2004	00.00	00	00	1,40,000.00

### 31. 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
	<b>Accessories</b>			
	Combined Electrode type CL 51B for pH Meter Model : LI612	1	850.00	850.00
4.	Elico Microprocessor based EC TDS Analyser with CC-03B and ATC Probe.	1	9790.00	9790.00
	<b>Accessories</b>			
	Conductivity cell	1	1000.00	1000.00
5.	Elico Microprocessor based Flame photometer (SS),	1	32040.00	32040.00
	<b>Accessories</b>			
	Calcium filter	1	2200.00	2200.00
6.	Elico Microprocessor based Scanning Visible Spectro photometer. Model : SL 177	1	40050.00	40050.00
	<b>Accessories</b>			
	Software and interfacing accessories for Spectrophotometer 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
	<b>Accessories</b>			
	Spare Silica Heater for Double Distillation Water Still (Glass) Cap: 2 ltr/hr (One set –Two Nos. for Boiler I & II )	1 Set	2837.00	2837.00
8.	Double Distillation water still (Quartz) 4 L./hr. Silica Sheathed heater, CAP:4 L/hr.	1	43050.00	43050.00
	<b>Accessories</b>			
	Spare Silica Heater for Double Distillation Water Still (Quartz) Cap:4 L/hr (One set –Two Nos. for Boiler I & II )	1 Set	5201.00	5201.00
9.	Water softner	1	3250.00	3250.00
10.	Shaking Machine	1	47025.00	47025.00
11.	Voltas Make 220 L. Capacity Refrigerator	1	10765.00	10765.00
	V-Guard Make 500 VA Stabilizer	1	1220.00	1220.00
	Refrigerator Stand	1	300.00	300.00
12.	Microprocessor based Block Digestion system	1	137350.00	142844.00
	Microprocessor based Automatic Nitrogen Distillation system	1	5494.00	
	<b>Accessories</b>			
	Electronic Acid Neutralizer Scrubber. Model: KEL VAC.	1	30400.00	30400.00
	S S Insert Rack. Model: KES 06 L.	1	6300.00	6300.00
	Exhaust Manifold System with Teflon Adaptors. Model: KES 06 LEM.	1	7160.00	7160.00
	Viton Tube for Triacid and Diacid Digestion. Model: KES VT.	3	3250.00	9750.00



13.	Hot air oven	1	16471.00	16471.00
14.	Hot plate	1	3046.00	3046.00
15.	Grinder	1	15435.00	15435.00
16.	Water Softener "Bhanu" Make Aqua Soft water softener (Model: AS- 600)	1	9752.00	9752.00
17.	Post Hole Augar Head Size: 3"	1	1200.00	1200.00
18.	Screw type Augar Head size :1.5 "	1	980.00	980.00
19.	Sieve Brass Frame	04	650.00	2860.00
20.	<b>Laboratory wares</b>			
	Laboratory tables	03	16931.00	118517.00
		04	18944.00	75776.00
	Slotted angular iron racks	05	1421.00	7105.00
	Steel cabinet	9	5326.00	47934.00
	Wash basin	3	1500.00	45000.00
	Exhaust fan	3	1500.00	1500.00
	Laboratory racks	06	1026.00	6156.00
	Water tap with swan neck	3	785.00	2355.00
21.	Gas burner	01	1500.00	1500.00
22.	Laboratory stools	05	828.00	4140.00
23.	Laboratory Chemicals	-	-	85346.00
24.	Glassware	-	-	91357.00
			<b>Total</b>	<b>10,44,833.00</b>

**3. Details of samples analyzed so far :**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	06	03	03	225
Water Samples	02	01	01	100
Plant Samples	-	-	-	-
<b>Total</b>	<b>08</b>	<b>04</b>	<b>04</b>	<b>325</b>

**32. Please include information which has not been reflected above( write in detail).**

Nil

**SUMMARY TABLES**

**Table-1 Area-wise Distribution of Training Courses for Farmers & Farm Women**

Discipline	No.of courses	No. of beneficiaries					
		Male	Female	Total	SC	ST	Total
Ag. Extension Education	20	81	106	187	41	88	129
Agril. Engineering	03	44	10	54	08	07	15
Livestock Production	13	138	105	243	55	89	144
Crop Production	03	87	11	98	16	06	22
Home Science	55	115	996	1111	260	407	667
Horticulture	06	65	54	133	27	28	55
Plant Pathology	04	106	27	133	22	23	45
Entomology	10	236	115	351	55	38	93
Soil fertility Mgt.	06	45	61	106	35	20	55
<b>TOTAL</b>	<b>120</b>	<b>917</b>	<b>1485</b>	<b>2416</b>	<b>519</b>	<b>706</b>	<b>1225</b>

**Table-2 Area-wise Distribution of Training Courses for Rural Youth**

Discipline	No.of courses	No. of beneficiaries					
		Male	Female	Total	SC	ST	Total
Home Science	01	02	17	19	04	05	09
Entomology	01	05	09	14	00	00	00
<b>TOTAL</b>	<b>02</b>	<b>07</b>	<b>26</b>	<b>33</b>	<b>04</b>	<b>05</b>	<b>09</b>

**Table-3 Area-wise Distribution of Training Courses for Extension Personnel**

Discipline	No.of courses	No. of beneficiaries					
		Male	Female	Total	SC	ST	Total
Home Science	01	00	16	16	01	00	01
Ag. Extension	01	08	28	36	02	02	04
<b>TOTAL</b>	<b>02</b>	<b>8</b>	<b>44</b>	<b>42</b>	<b>03</b>	<b>02</b>	<b>05</b>

**Table-4 Number of Extension Activities and Beneficiaries**

Nature of Extension Activities	No.of Actv.	Farmers			Extension Officials			Total		
		M	F	Total	M	F	Total	M	F	Total
Kissan melas	01	30000	10000	40000	6000	4000	10000	36000	14000	50000
Field days	07	544	116	660	52	9	61	596	125	721
Radio / TV Talk	16	-	-	-	-	-	-	-	-	-
Film /Video show	30	195	332	527	19	30	49	214	362	576
Exhibition	02	530000	260000	790000	56000	29000	85000	586000	289000	875000
Newspaper coverage	10	-	-	-	-	-	-	-	-	-
Popular article	22	-	-	-	-	-	-	-	-	-
Extension Literature	06	-	-	-	-	-	-	-	-	-
Advisory services	180	90	50	140	30	10	40	120	60	180
<b>Total</b>	<b>274</b>	<b>560829</b>	<b>270498</b>	<b>831327</b>	<b>62101</b>	<b>33049</b>	<b>95150</b>	<b>622930</b>	<b>303547</b>	<b>926477</b>

<b>Animal Health Camps.</b>	04	Cows 240	Buffaloes 50	Calves 95	Other Animals 50	Total Animals 435
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**Table-5 Production of Seeds**

Sl. No.	Crop	Variety	Qty. (Quintal)	Value (in Rs.)	Provided to No. of Farmers
<b>CEREALS</b>					
1.	Little millet	Sukshema	335	5025.00	100
2.	Foxtail millet	HMT-100-1	245	3675.00	75
3.	Finger millet	GPU-28	18	270.00	03
4.	Sorghum	Pule yeshoda	120	1800.00	35
5.	Sorghum	M-35-1	200	3000.00	65
<b>Total</b>			<b>918</b>	<b>13770.00</b>	<b>278</b>
<b>OILSEEDS</b>					
I.	Groundnut	GPDB-4	710	19880.00	12
II.	Groundnut.	TAG-24	80	2240.00	02
III.	Groundnut	DH-86	105	2940.00	02
IV.	Groundnut	VRI-2	85	2380.00	02
<b>Total</b>			<b>980</b>	<b>27440.00</b>	<b>18</b>
<b>PULSES</b>					
1	Redgram	Asha	190	5700.00	38
2	Bengalgram	Bheema	175	5600.00	09
<b>Total</b>			<b>365</b>	<b>11300.00</b>	<b>47</b>

**Summary of seed production**

Sl. No.	Crops	Qty. (Quintal)	Value (in Rs.)	Provided to No. of Farmers
I.	CEREALS	918	13770.00	278
II.	OILSEEDS	980	27440.00	18
III.	PULSES	365	11300.00	47
IV.	VEGETABLES	00	00	00
V.	OTHERS	00	00	00
<b>TOTAL</b>		<b>2263</b>	<b>52510.00</b>	<b>343</b>

**Table-6 : Production of saplings/seedlings of Fruit/ Vegetables/ Forest species**

Sl. No.	Crop	Variety	Qty. (Nos.)	Value (in Rs.)	Provided to No. of Farmers
<b>I FRUIT CROPS</b>					
1.	Sapota	DSH-1	250	12500	25
		DSH-2	200	10000	20
2.	Guava	Lucknow-49	18	450	03
3.	Lime	Local	50	250	02
4.	Custard apple	Local	70	350	03
<b>Total</b>			<b>588</b>	<b>23550</b>	<b>53</b>
<b>II VEGETABLE</b>					
	Drumstick	Dhanraj	200	1000	05
<b>Total</b>			<b>200</b>	<b>1000</b>	<b>05</b>
<b>III SPICE CROPS</b>					
	1. Curry leaf	Suwasini	1350	6750	50
<b>Total</b>			<b>1350</b>	<b>6750</b>	<b>50</b>

**Summary**

Sl. No.	Crops	Qty. (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I.	FRUITS	588	23550	53
II.	VEGETABLES	200	1000	05
III.	SPICE CROPS	1350	6750	50
<b>TOTAL</b>		<b>2138</b>	<b>31300</b>	<b>108</b>

**Table 7 : Front Line Demonstration on Oilseed Crops**

**Season : Kharif**

Crop	No. of Farmers	Area (ha.)	Yield(q/ha)		% increase
			Demon.	Local	
Groundnut	10	10	18.87	15.50	21.74
Sunflower	13	05	8.80	7.60	15.78
Soybean	25	10	21.25	7.10	24.26
Castor	13	05	7.00	6.10	14.75
<b>Total</b>	<b>58</b>	<b>30</b>			

**Season : Rabi/ Summer**

Name of the Crop	No. of Farmers	Area (ha.)	Yield(q/ha)		% increase
			Demon.	Local	
Groundnut ( GPBD-4)	08	10	24.72	18.50	33.62
Sunflower (RSFH-1)	13	05	7.16	4.60	55.65
<b>Total</b>	<b>21</b>	<b>15</b>			

**Table 8 : Front Line Demonstration on Pulse Crops**

**Season : Kharif**

Crop	No. of Farmers	Area (ha.)	Yield(q/ha)		% increase
			Demon.	Local	
Redgram	25	10	6.55	4.42	48.19
Greengram	25	10	7.30	3.75	94.67
Blackgram	25	10	8.10	6.90	17.39
<b>Total</b>	<b>75</b>	<b>30</b>			

**Season : Rabi/Summer**

Crop	No. of Farmers	Area (ha.)	Yield(q/ha)		% increase
			Demon.	Local	
Bengalgram	25	10	6.75	5.70	18.42
<b>Total</b>	<b>25</b>	<b>10</b>			

**Table 9 : Front Line Demonstration on other Crops**

Crop	No. of Demonstration	Area (ha.)	Yield(q/ha)		% increase
			Demon.	Local	
Aster	03	01	105	70	50.00
<b>Total</b>	<b>03</b>	<b>01</b>			

**Table 10 : Front Line Demonstration on Other enterprise : Nil**

**Table 11 : No. of On Farm Trials conducted**

Crops	Varietal / feed evaluation	Nutrient/ feed Management	Cropping system	Zero tillage	Weed Management	Insect/ disease management	Total
Cereals	1	0	2	-	-	-	3
Oilseeds	3	2	-	-	-	-	5
Pulses	2	0	-	-	-	-	2
Commercial crops	-	-	-	-	-	5	5
Vegetables, fruits & Flowers	1	1	-	-	2	6*	10
Animal Science	-	-	-	-	-	-	-
Agri. Implements	-	-	-	-	-	-	-
<b>Total</b>	<b>07</b>	<b>03</b>	<b>02</b>	<b>-</b>	<b>03</b>	<b>11</b>	<b>25</b>

\* Includes three ICAR sponsored OFT's