

PROGRESS REPORT (2008-09)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Junagadh Agricultural University, Khapat-360579, Porbandar (Gujarat)	Office 0286- 2912562	FAX 0286- 2242416	kvk_khapat@yahoo.co.in pathakkvk@yahoo.co.in

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

Address	Telephone		E mail
	Office	FAX	
Junagadh Agricultural University Junagadh-362001 (Gujarat)	(1)0285- 2671784 (2)0285- 2672080-90	(1) 0285- 2672004 (2) 0285- 2672653	

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Mr. D. M. Pathak	9428835209	9909015725	pathakkvk@yahoo.co.in

1.4. Year of sanction: February, 2005

1.5. Staff Position (as on 30th September 2009)

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale	Pres. Basic	Date of joining	Perm./Temp	Category
1	Programme Coordinator	D. M. Pathak	Programme Coordinator	Pl. Pathology	8000-13500	8825	16-8-06	Temporary	Others
2	Subject Matter Specialist	P. J. Gohil	Subject Matter Specialist	Agronomy	8000-13500	8825	21-8-06	Temporary	OBC
3	Subject Matter Specialist	R. B. Vadher	Subject Matter Specialist	Entomology	8000-13500	8825	19-8-06	Temporary	OBC
4	Subject Matter Specialist	H. R. Vadar	Subject Matter Specialist	Agril. Engg. (SWE)	8000-13500	8825	22-8-06	Temporary	OBC
5	Subject Matter Specialist	D. S. Thakar	Subject Matter Specialist	Home Science	8000-13500	8000	22-8-06	Temporary	Others
6	Subject Matter Specialist	S. R. Thaker	Subject Matter Specialist	Fisheries	8000-13500	8000	31-8-06	Temporary	Others
7	Subject Matter Specialist	R. K. Odedra	Subject Matter Specialist	Horticulture	8000-13500	8000	1-06-09	Temporary	OBC
8	Programme Assistant	Vacant	-	-	5500-9000		-		-
9	Computer Programmer	J. J. Naliyapara	Computer Programmer	-	5500-9000	(4500 Fix)	12-6-08	Temporary	OBC

10	Farm Manager	Vacant	-	-	5500-9000	-	-	-	-
11	Accountant / Superintendent	V. L. Chauhan	Office Superintendent	--	5500-9000	6350	18-6-08	Temporary	OBC
12	Stenographer	K. R. Yadav	Stenographer	-	4000-6000	(2500 Fix)	06-02-09	Temporary	OBC
13	Driver	Vacant		-	-		-		-
14	Driver	Vacant		-	-		-		-
15	Supporting staff	B. M. Vyas	Peon	-	2550-3200	3540	01-6-05	Temporary	Others
16	Supporting staff	N. S. Chavda	Peon	-	2550-3200	1500 (Fix)	28-2-08	Temporary	ST

1.6. Total land with KVK (in ha) : 20.59

Sr. No.	Item	Area (ha)
1	Under Buildings	0.95
2.	Under Demonstration Units	1.10
3.	Under Crops	12.76
4.	Orchard/Agro-forestry	2.42
5.	Others	3.36

1.7. Infrastructure

A) Building

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	13/10/07	588	-	-	-	completed
2.	Farmers Hostel	ICAR	31/7/08	288	-	-	-	completed
3.	Staff Quarters (6)	ICAR	24/11/07	446	-	-	-	completed
4.	Demonstration Units	ICAR	-		-	-	-	Proposed
5	Fencing	ICAR	-	500 RM	-	-	-	In progress
6	Threshing floor	ICAR	-	900	-	-	-	In progress
7	Farm godown	ICAR	-	129	-	-	-	In progress
8	Open well	ICAR	-	6 m dia.	-	-	-	In progress

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Farmtrac)	2005	380000	1119 Hours	Good
Bolero Jeep	2005	496000	8029 Km	Good

C) A. Equipments & AV aids procured under KVK

Fax machine	2008-09	17200	Running
LCD projector	2008-09	100000	Running

B. Equipments & AV aids procured under RKVY

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Zerox machine	2008-09	124000	Running
R.O. plant	2008-09	24450	Running
Hcl laptop computer	2008-09	47,500	Running
Food processor	2008-09	5,495	Running
Multipurpose bullock drawn pipe frame implement head peace	2008-09	27,500	Running
Rotavator tractor operated	2008-09	96,000	Running
Planter tractor operated	2008-09	44,000	Running
Tractor drawn harrow cum cultivator cum intercultivator frame 86"	2008-09	37,500	Running
Samsung double door refrigerator	2008-09	17,650	Running
Electrolux grill microwave / oven	2008-09	9,580	Running
Panasonic LCD projector	2008-09	103,912	Running
Multi purpose groundnut cum wheat thresher	2008-09	114,000	Running
Cotton shredder	2008-09	242,000	Running
Solar street light	2008-09	28,000	Running
Solar lanterns	2008-09	4,800	Running
Solar cooker	2008-09	3,300	Running
Mobile seed grading unit	2008-09	1,685,000	Running
Decorticators	2008-09	95,850	Running
Winnowing fan	2008-09	8,500	Running
Chaff cutter	2008-09	30,188	Running
High tech sprayer pump	2008-09	1,850	Running
Battery operated sprayer pump	2008-09	4,940	Running

1.8. A). Details SAC meeting* conducted in the year

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	21-10-2008	1. Dr. R. L. Savaliya, DEE, JAU, JND 2. Shri Hasmukh Patel (G.A.S.) Deputy Collector, Porbandar 3. Shri N. M. Shukla, DAO, Porbandar 4. Shri M.B. Dhorajia, Dy. Director of Horticulture, Porbandar 5. Dr. P. C. Malli, Superintendent of Fisheries, Porbandar 6. Shri G. B. Godhania, Forest, Department, Porbandar 7. Shri R. K. Odedra, Asst. Research Scientist, CRS, Khapat 8. Rameshbhai Bhalodiya, At: Ishwariya, Ta: Kutiyana, Dist: Porbandar 9. Shri Hathiya A. Odedara, At: Bharvada, Ta & Dist :Porbandar 10. Smt. Rekhaben A. Bhalodiya, At: Ishwariya, Ta: Kutiyana, Dist:	1. More emphasis should be given to full package of practices instead of improved variety only. 2. Integrated input management practices and recycling of organic materials should be popularized 3. Value addition and processing of agricultural products for better market price	1. FLDs on improved varieties were conducted with adoption of improved package of practices. 2. Demonstration of cotton shredder was conducted in different villages under cotton mini mission, Incorporated in trainings also ... 3. More emphasis was given on value addition and processing in the trainings.

		Porbandar 11. Smt. Bhartiben K. Joshi, At: Khapat, Ta & Dist : Porbandar 12. Shri Ambaliya, Asst. Director od Horticulture, Porbandar 13. Shri Arjanbhai Karavadra, Director, APMC, Porbandar 14. Shri J N Thakar, SMS (Fisheries), KVK, JAU, Jamnagar 15. Shri H. M. Bhuva, SMS, KVK, JAU, Nana kandhasar,		
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2. DETAILS OF DISTRICT (2008-09)

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

Sr. No	Farming system/enterprise
1.	Rainfed Farming System

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

Sr. No	Agro-climatic Zone	Characteristics
1.	South Saurashtra	Porbandar district is located between 21° to 22° N latitude and 69° to 70° E longitude. Khapat- N 21° 40' 12" and E 69° 37' 14" Soil: medium black & silty loam with calcareous in nature pH: of the soil is ranging from 8.01 to 8.58 Water: Ec value up to 8.1 mm / cm Average Rainfall: 459.5 mm Temperature Range: 35.3° C to 16.9 °C

Sr. No	Agro ecological situation	Characteristics
1.	Shallow black soil with low rainfall	Soil: Sandy clay loam to clay Rainfall: <750 mm
2.	Hilly soil with low rainfall	Soil: Sandy clay loam to sandy clay Rainfall: <750 mm
3.	Medium black soil with low rainfall	Soil: Sandy clay to clay Rainfall: <750 mm
4.	Deep black soil with low rainfall (Ghed)	Soil: clay Rainfall: <750 mm
5.	Mix red & black soil with medium rainfall	Soil: Sandy clay loam to clay loam Rainfall: 750-1000 mm

2.3 Soil type/s

Sr. No	Soil type	Characteristics	Area in ha
1.	Sandy clay loam to clay	Rainfall: <750 mm	34000
2.	Sandy clay loam to sandy clay	Rainfall: <750 mm	46000
3.	Sandy clay to clay	Rainfall: <750 mm	38200
4.	Clay	Rainfall: <750 mm	74000
5.	Sandy clay loam to clay loam	Rainfall: 750-1000 mm	4800

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

2.5. Weather data

Meteorological Week	Rainfall (mm)*	Temperature °C		Relative Humidity (%)
		Max.	Min.	
1	0	29.6	15.0	44.57
2	0	28.70	14.72	49.14
3	0	28.21	13.23	48.76
4	0	25.16	11.00	39.75
5	0	25.29	12.76	57.15
6	0	23.14	9.29	45.30
7	0	29.73	13.70	46.52
8	0	30.39	15.83	52.16
9	0	34.00	13.40	42.59
10	0	31.23	18.17	56.71
11	0	32.08	20.52	61.26
12	0	32.93	19.80	65.29
13	0	30.89	20.99	69.87
14	0	31.09	21.57	69.74
15	0	33.61	21.66	71.49
16	0	34.03	21.53	69.69
17	0	35.33	23.36	70.71
18	0	28.28	22.54	76.42
19	0	32.53	26.47	73.62
20	0	32.87	26.94	73.26
21	0	33.54	26.93	72.69
22	14	33.54	27.90	74.06
23	56	32.24	27.34	78.62
24	58.5	31.00	27.49	80.73
25	1.5	31.86	28.26	76.36
26	291.5	31.41	27.44	78.30
27	0	30.28	27.40	79.57
28	7.5	30.59	27.31	78.24
29	2	30.90	27.34	77.66
30	138	30.04	25.93	82.17
31	3	28.86	25.66	87.59
32	3	27.58	25.00	87.84
33	22	28.13	22.21	87.33
34	0	29.26	24.47	83.83
35	0	30.27	24.69	80.01
36	0	33.25	24.95	79.50
37	54.5	30.99	24.47	86.46
38	0	29.71	24.99	85.46
39	0	30.07	23.41	78.79
40	0	30.90	22.67	80.89
41	0	36.42	24.00	58.58
42	0	37.34	22.19	46.46
43	0	35.31	20.57	53.75
44	0	32.98	20.83	68.95
45	0	34.90	20.10	50.33
46	0	32.57	19.29	47.35
47	0	32.84	18.39	41.43
48	1.5	31.14	19.56	49.49
49	0	33.30	20.50	58.33
50	0	32.30	21.2	49.65

51	0	32.10	20.40	48.96
52	0	32.74	21.35	50.12
Total	653			

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>			
<i>Indigenous</i>	83335	-	-
Buffalo	84574	-	-
Sheep			
<i>Crossbred</i>			
<i>Indigenous</i>	33908	-	-
Goats	24989	-	-
Poultry			
<i>Improved</i>	2069	-	-
Fish			
	-		-
<i>Marine</i>	6284 (Fisherman)	60000 mt (Capture)	-
Shrimp / Fish			-

2.7 Details of Operational area / Villages

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Porbandar	Cluster I	1. Visavada 2. Vadala 3. Bagvadar 4. Advana 5. Boricha	Groundnut Cotton Sorghum Wheat Cumin Coriander	<ul style="list-style-type: none"> Stem/collar rot of groundnut Cumin blight Sucking pest and mealybug in cotton Salinity ingress 	<ul style="list-style-type: none"> IPM Improved package of practices IDM Problematic soil Poor quality water
2.	Ranavav	Cluster II	1. Hanumangadh 2. Bileshwar 3. Bordi 4. Kandorana 5. Bapodar	Groundnut Cotton Sorghum Wheat Cumin	<ul style="list-style-type: none"> Stem/collar rot of groundnut Cumin blight Sucking pest and mealybug in cotton Fruit fly in Mango & Ber 	<ul style="list-style-type: none"> IPM Improved package of practices IDM Horticulture

3.	Kutiyana	Cluster III	1. Ishwariya 2. Khageshri 3. Chauta 4. Mahiyari 5. Amipur	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	<ul style="list-style-type: none"> Stem/collar rot of groundnut Cumin blight Sucking pest and mealybug in cotton Salinity & water logging in Ghed 	<ul style="list-style-type: none"> IPM Improved package of practices IDM Problematic soil
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2.8 Priority thrust areas

Sr. No	Thrust area
1	Improved package of practices for different crops of the area
2	Improved varieties
3	Horticulture
4	Efficient use of water
5	Organic farming
6	Integrated Pest and Diseases management
7	Fisheries cultivation
8	Ground water recharge
9	Skill oriented income generating activities such as : <ul style="list-style-type: none"> Sewing and embroidery Vermi composting Techniques Value addition of agricultural products Fruits and vegetable preservation Preparation of bakery products Handicrafts

3. TECHNICAL ACHIEVEMENTS

3. A Details of target and achievements of mandatory activities by KVK during 2008-09

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	4	10	10	8	7	146	121

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
75	75	1875	1869	617	1714	2500	5783

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement

Groundnut - 100	97	-	-
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3. B Abstract of interventions undertaken

Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	IPDM	Groundnut	<ul style="list-style-type: none"> Stem/collar rot Aflatoxin Storage pest 	Application method of <i>Trichoderma</i>	--	<ul style="list-style-type: none"> Seed Treatment in groundnut IPM in groundnut 	--	Training, Klsan goshtjy, Tele. helpline, Prob. Diag., Field Day	<i>Trchoderma</i> , Castor Cake, Seed
2.	Water Conservation	Groundnut	Water stress due to frequent dry seplls	In-situ moisture conservation in groundnut	--	<ul style="list-style-type: none"> in-situ moisture conservation 	--	-do-	Seed
3	INM	Mango	Poor fruit quality due to nutrient deficiency	INM in Mango	-	-	-	-do-	Fertilizer
4	IPM	Mango	Heavy economical loss due to damage by fruit fly and impaired the quality of fruit	Integrated Management if fruit fly	-	-	-	-do-	Methyl Eugenol traps

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies assessed* in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management						1				1
Integrated Farming System										
Mushroom										

cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management						1				1
Integrated Disease Management		1								1
Resource conservation technology		1								1
Small Scale income generating enterprises										
TOTAL										4

A.2. Abstract of the number of technologies **refined*** in respect of crops/enterprises: **NIL**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

* *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises: **NIL**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises: **NIL**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment

On Farm Trial: 1

1. Title of on-farm trials

Application method of *Trichoderma* against stem rot disease in groundnut

2. Problem diagnose

Farmers are either not using fungicides or using fungicides in improper way for seed treatment to protect the crop against soil/seed borne diseases.

▪ **Reasons for low yield of groundnut**

1. Lower plant population
2. Disease infestation
3. Lack of awareness about recommended package of practices

3. Details of technologies selected for assessment/refinement

Technology: Application of *Trichoderma*, a biological agent for management of stem rot disease in groundnut.

- I. No application of *Trichoderma* - **Farmer's practice**

- II. Mix *Trichoderma* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing – **Recommended practice**
- III. Mix *Trichoderma* @ 2.5 kg/ha with 500 kg FYM/fine sand and side application of groundnut row 30 days after sowing in moist condition – **Intervention**

4. Source of technology

Recommended by Junagadh Agricultural University, Junagadh

5. Production system and thematic area

- Rainfed Production System
- Biological control of stem rot in groundnut

6. Performance of the Technology with performance indicators

- Reduction in plant mortality
- Decrease in Disease index
- Economics

7. Final recommendation for micro level situation: Awaited

8. Constraints identified and feedback for research: Nil

9. Process of farmers participation: Training and different extension activities

10. Farmers' reaction: Satisfactory

On Farm Trial: 2**1. Title of on-farm trials**

In situ Soil moisture conservation practices for rainfed groundnut

2. Problem diagnose

Farmers are not aware of in situ moisture conservation practices and importance of proper tillage practices.

Reasons for low yield of groundnut

1. Improper Tillage
2. Erratic rainfall and lack of moisture conservation practices
3. Lack of awareness about recommended package of practices

3. Details of technologies selected for assessment/refinement**Technology:**

Optimum tillage practice for moisture conservation in rainfed groundnut.

- i) Shallow tillage with 7-8 interculturing – **Farmer's practice**
- ii) Deep tillage with 2-4 inter culturing - **Recommended Practice**
- iii) Medium tillage with 4-5 inter culturing – **Intervention**

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Rainfed Production System
- *In situ* moisture conservation

6. Performance of the Technology with performance indicators

- Moisture content
- Growth and Yield
- Economics

7. Final recommendation for micro level situation: Awaited

8. Constraints identified and feedback for research: Nil

9. Process of farmers participation: Training and different extension activities

10. Farmers' reaction: Satisfactory

On Farm Trial: 3

1. Title of on-farm trials: Integrated Nutrient Management in Mango

2. Problem diagnose: Farmers are either using organic manures only or only inorganic fertilizers with improper method and time of application.

Reasons for low yield of mango

- Improper selection of variety at the time of orchard establishment
- Improper management of orchard
- Alternate bearing
- Lack of awareness about recommended package of practices
- Affect of diseases and pests

Problem solutions:

- Proper selection of variety at the time of orchard establishment
- Proper management of orchard
- Reduce crop load at the time of fruiting i.e., on year
- Application of recommended package of practices
- Control over diseases and pests by spraying, dusting and drenching of different fungicide, insecticide and bactericides.

3. Details of technologies selected for assessment/refinement**Treatments:**

1. Use of FYM @ 100 kg per plant - **Farmer practice**
2. FYM 100 kg & N: P: K 500:200:500 g/plant - **Recommended practice**
3. FYM 150 kg & N: P: K 375:100:250 g/plant - **Intervention**

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Rainfed Production System
- Integrated Nutrient Management

6. Performance of the Technology with performance indicators

- Growth and Yield
- Fruit quality
- Economics

7. Final recommendation for micro level situation: Awaited**8. Constraints identified and feedback for research:** Nil**9. Process of farmers participation:** Training and different extension activities**10. Farmers' reaction:** Awaited**On Farm Trial: 4****1. Title of on-farm trials**

Integrated Management of Fruit fly in mango

2. Problem diagnose

Farmers are unaware of scientific recommended method for control of pest. They some times not applying any plant protection measures and who ever apply are neither maintain dose nor proper method and time of application.

Reasons for low yield of mango

- Improper selection of variety at the time of orchard establishment
- Improper management of orchard
- Alternate bearing
- Lack of awareness about recommended package of practices
- Problems of diseases and pests

Problem solutions:

- Proper selection of variety at the time of orchard establishment
- Proper management of orchard
- Reduce crop load at the time of fruiting

- Application of recommended package of practices
- Integrated pests and diseases management.

3. Details of technologies selected for assessment/refinement

Treatments:

1. **Farmer's practice:** Only chemical pesticides
2. **Reco. Practice:** Collection of damaged fruits and destroyed it.
Plough around the trees during winter to expose and kill the pupae.
In month of March spray the one tree with Fenthion 10ml and Methyl eugenol 10ml in 10 lit. water and other eleven trees spray with Fenthion 10ml
Use of Methyl eugenol traps (Methyl eugenol 0.056ml or 4 drops and 4 drops of dichlorvos on sponge).
Growing of shyam Tulsi around the orchard and spray it with Fenthion.
Spray the solution of Mollases 150g and Malathion 100ml in 100lit. water in form of big droplets on the trees and grasses grown on bunds and boundaries of orchard.
3. **Intervention:** Collection of damaged fruits and destroyed it.
Plough around the trees during winter to expose and kill the pupae.
Growing of shyam Tulsi around the orchard and spray it with Fenthion.
Use of Methyl eugenol traps.

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Rainfed Production System
- Integrated Pest Management

6. Performance of the Technology with performance indicators

- Productivity
- Fruit quality
- Economics

7. **Final recommendation for micro level situation:** Awaited

8. **Constraints identified and feedback for research:** Nil

9. **Process of farmers participation:** Training and different extension activities

10. **Farmers' reaction:** Awaited

11). Results of On Farm Trials

OFT – 1

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Rainfed	Stem rot	Application method of <i>Trichoderma</i> in Groundnut	3	Management of stem rot in Groundnut	Yield, Disease incidence	Yield, Stem rot incidence	Yield increase by 13.9 %	Satisfactory	No	--

Technology Assessed / Refined	Production per unit (kg/ha)	Stem rot incidence (%)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17
Farmer's practice	1660	10.8	20375	1:1.91
Technology assessed	1919	6.00	27443	1:2.42
Technology refined (Intervention)	1891	4.75	30079	1:2.65

OFT – 2

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Rainfed	Moisture stress	<i>In-situ</i> moisture conservation practices for rainfed groundnut	3	Deep tillage with 2 - 4 interculturing in Groundnut	Yield, Moisture Content	Yield, Moisture Content	Yield increase by 18.2 %	Satisfactory	No	--

Technology Assessed / Refined	Production per unit(kg/ha)	Moisture content (%)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17
Farmer's practice	1609	15.2	16865	1:1.72
Technology assessed	1890	18.3	25590	1:2.18
Technology refined (Intervention)	1902	17.4	27080	1:2.32

OFT: 3

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Mango	Irrigated	Low productivity & quality	Integrated Nutrient Management in Mango	3	INM	Yield	% Yield increase	Yield increase by 6.4%	Satisfactory

Technology Assessed	Production kg/Tree	% yield increase	BC Ratio
13	14	16	17
Farmer's practice	140	-	-
Technology assessed	152	8.6	-
Technology refined (Intervention)	149	6.4	-

OFT: 4

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Justification for refinement
1	2	3	4	5	6	7	8	9	12
Mango	Irrigated	Pest incidence (Fruit fly)	Integrated Management of Fruit fly in mango	3	IPM	Yield, Pest incidence	% Yield increase, % damage	Yield increase by 6.5%	--

Technology Assessed / Refined	Production kg/Tree	% damage	BC Ratio
13	14	16	17
Farmer's practice	153	11.8	-
Technology assessed	168	1.1	-
Technology refined (Intervention)	163	1.6	-

B. Technology Refinement: NIL**3.2 Achievements of Frontline Demonstrations****a. Follow-up for results of FLDs implemented during previous years**

List of technologies demonstrated during previous year and popularized during 2008-09 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1.	Groundnut	ICM	Variety GG-20 & full package of practices	Trainings & FLDs	35	1495	1788
2.	Groundnut	IDM	Use of biological agent Trichoderma for stem rot control	Trainings, Field days FLDs & OFTs	22	864	1005

* Thematic areas as given in Table 3.1 (A1 and A2)

b. Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Cereals:

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	Varietal evaluation	Improved variety and package of practices	Rabi-2008	10	10	6	14	20	Nil
2.	Pearl millet (Late kharif)	Varietal evaluation	Improved variety and package of practices	Late Kharif 2008	5	5	3	7	10	Nil

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					
Wheat	Rabi-08	Irrigated	Medium Black	Low	medium	high	Groundnut	15-28/11/08	8-29/3/2009	-	-
Pearl millet	Khari-08	Rainfed	Medium Black	Low	medium	high	Wheat/Cumin	10-24/9/2008	20/11 – 5/12/2008	653	20

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Wheat	Improved variety and Package of practices	GW-366	20	10	40.30	32.00	35.72	30.30	17.90	-	-
2.	Pearl millet	Improved variety and Package of practices	GHB 538	10	5	39.28	32.62	36.46	31.10	17.20	-	-

Economic impact

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
23085	24495	50008	42420	26923	17925	1: 2.17
9252	11235	36460	31100	26508	19865	1: 3.66

Horticultural Crops:

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cumin	Varietal evaluation	Improved variety and package of practices	Rabi-2008	5	5	2	8	10	Nil

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					
Cumin	Rabi-08	Irrigated	Medium Black	Low	medium	high	Groundnut	26/10 - 5/11/2008	6/2 - 18/2/2009	-	-

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cumin	Improved variety and Package of practices	GC-4	10	5	10.12	7.71	8.62	7.45	15.7	-	-

Economic impact

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
21557	24300	94820	81950	73263	57650	1 : 4.40

Oilseed Crops:

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	Varietal evaluation	Improved variety and package of practices	Kharif 2008	8	8	3	13	16	Nil

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	Kharif 2008	Rainfed	Medium Black	Low	medium	high	Wheat/Cumin	16-25/6/2008	12-30/10/2008	653	20

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Groundnut	Improved variety and Package of practices	GG-20	16	8	20.12	13.96	17.43	14.97	16.40	-	-

Economic impact

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
19638	22700	40949	35180	21311	12480	1:2.09

Pulses:

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Pigeon pea	Varietal evaluation	Production Technology	Kharif 08	5	5	2	8	10	Nil
2	Gram	Varietal evaluation	Production Technology	Rabi-08	5	5	3	7	10	Nil

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing/Appli. date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Pigeon pea	Kharif 08	Irrigated	Medium Black	Low	medium	high	Cotton	13/7 – 23/8/2008	01/1 – 08/2/2009	653	20
Gram	Rabi-08	Rainfed	Medium Black	Low	medium	high	-	9-15/11/2008	9-26/2/2009	-	-

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Pigeon pea	Improved variety and Package of practices	BDN-2	10	5	24.23	20.03	22.00	18.96	16.05	-	-
2	Gram	Improved variety and Package of practices	GG-2	10	5	19.71	16.21	17.88	15.32	16.70	-	-

Economic impact

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
14924	16200	83600	75468	68676	59268	1:5.60
12200	14200	46488	39832	34288	25632	1:3.81

FLDs on Cotton (under Cotton Mini Mission Mode II):

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cotton	Varietal Evaluation	Improved variety and Package of practices	Kharif 2008	20	10	5	20	25	Allotment letter and Grant was late

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					
Cotton	Kharif 08	Rainfed	Medium Black	Low	medium	high	Gram/Cotton	11-18/8/2008	10-30/3/2009	653	20

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cotton	Improved variety and Package of practices	G. Cot. -21	25	10	17.30	12.90	15.03	12.98	15.80	-	-

Economic impact

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
9259	10254	32344	27904	23086	17650	1:3.50

Analytical Review of component demonstrations:

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif-08	Plant Protection <i>Trichoderma</i>	Rainfed	18.60	15.20	15.7
Gram	Rabi-08	Plant Protection NPV	Rainfed	17.75	15.52	14.3

Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	Creating awareness among the farmers about improved/high yielding varieties of the related crops
2	Leads the farmers from traditional agriculture to scientific & sustainable agriculture by the use of recommended/improved package of practices and ultimately reduce the cost of cultivation
3	Make the farmers aware about Integrated Pest & Disease Management by the proper use of insecticide/fungicides as well as bio agents/bio pesticides

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	Improved varieties are good and can give its potential yield with proper management practices.
2	If the seeds of the new varieties are generously available through Govt. Agencies, they are interested in sowing of demonstrated varieties.
3	Cumin GC-4 and wheat GW-366 are very good and given more yield than local varieties
4	If applied properly, <i>Trichoderma</i> is the most suitable bio fungicide for the control of stem rot in groundnut

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	6		136	
2	Farmers Training	4	06/10/08 06/11/08 07/05/09 01/06/09	105	
3	Media coverage		Nil		
4	Training for extension functionaries	1	12-13/12/08	42	

c. Details of FLD on Enterprises:**(i) Farm Implements: Under Cotton Mini Mission-II sponsored by State Dept. of Agri.**

Name of the implement	crop	No. of farmers	Area (ha)
Shredder	Cotton	57	25
Tractor drawn Sprayer	Cotton	79	25

(ii) Livestock Enterprise: NIL

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

* *Milk production, meat production, egg production, reduction in disease incidence etc.*

(iii) Other Enterprises: NIL

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi compost								

3.3 Achievements on Training

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Cropping Systems	1	14	0	14	9	0	9	23	0	23
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	3	65	3	68	21	2	23	86	5	91
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture: NIL										
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	1	16	0	16	8	0	8	24	0	24
Integrated Nutrient Management	1	24	0	24	7	0	7	31	0	31
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management: NIL										
V Home Science/Women empowerment										
Household food security by kitchen	-	-	-	-	-	-	-	-	-	-

gardening and nutrition gardening										
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	1	0	23	23	0	6	6	0	29	29
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	1	0	22	22	0	3	3	0	25	25
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	1	0	23	23	0	7	7	0	30	30
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	23	0	23	5	0	5	28	0	28
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	21	0	21	7	0	7	28	0	28

Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection										
Integrated Pest Management	4	72	0	72	22	0	22	94	0	94
Integrated Disease Management	2	50	0	50	12	0	12	62	0	62
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	14	11	25	0	0	0	14	11	25
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	1	26	0	26	8	0	8	34	0	34
IX Production of Inputs at site: NIL										
X Capacity Building and Group Dynamics: NIL										
XI Agro-forestry: NIL										

TOTAL	19	325	82	407	99	18	117	424	100	524
(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	1	26	0	26	4	0	4	30	0	30
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	14	0	14	9	0	9	23	0	23
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension	-	-	-	-	-	-	-	-	-	-

workers										
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	12	0	12	9	0	9	21	0	21
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	3	52	0	52	22	0	22	74	0	74
(C) Extension Personnel										
Productivity enhancement in field crops	1	21	0	21	2	0	2	23	0	23
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	1	23	6	29	3	4	7	26	10	36
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	1	0	16	16	0	10	10	0	26	26
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-

Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	25	421	104	525	126	32	158	547	136	683

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	1	16	2	18	7	2	9	23	4	27
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	21	3	24	6	0	6	27	3	30
Water management	1	4	12	16	2	8	10	6	20	26
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	3	58	7	65	15	2	17	73	9	82

Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture: NIL										
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	3	60	3	63	13	2	15	73	5	78
Integrated Nutrient Management	2	56	7	63	10	0	10	66	7	73
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	1	20	2	22	8	1	9	28	3	31
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	1	23	1	24	3	0	3	26	1	27
IV Livestock Production and Management: NIL										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	20	20	0	27	27	0	47	47
Income generation activities for empowerment	2	0	39	39	0	14	14	0	53	53

of rural Women										
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	1	0	43	43	0	11	11	0	54	54
Women and child care	3	0	53	53	0	32	32	0	85	85
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	21	2	23	2	0	2	23	2	25
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	2	33	0	33	14	0	14	47	0	47
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	20	3	23	4	1	5	24	4	28
VII Plant Protection										
Integrated Pest Management	5	105	12	117	34	7	41	139	19	158
Integrated Disease Management	6	134	22	156	34	6	40	168	28	196
Bio-control of pests and diseases	2	39	5	44	13	2	15	52	7	59
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries										
Integrated fish farming	2	45	2	47	14	0	14	59	2	61
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling	-	-	-	-	-	-	-	-	-	-

rearing										
Composite fish culture	3	83	0	83	19	0	19	102	0	102
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	1	31	0	31	9	0	9	40	0	40
IX Production of Inputs at site: NIL										
X Capacity Building and Group Dynamics: NIL										
XI Agro-forestry: NIL										
TOTAL	43	769	238	1007	207	115	322	976	353	1329
(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	1	19	0	19	9	0	9	28	0	28
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	8	12	20	2	8	10	10	20	30
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-

Repair and maintenance of farm machinery and implements	1	17	3	20	3	4	7	20	7	27
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	1	8	5	13	3	4	7	11	9	20
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	4	52	20	72	17	16	33	69	36	105

(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	47	821	258	1079	224	131	355	1045	389	1434

C. Consolidated table (ON and OFF Campus)**Farmers, Farm Women and Rural youth**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	2	30	2	32	16	2	18	46	4	50
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	21	3	24	6	0	6	27	3	30
Water management	1	4	12	16	2	8	10	6	20	26
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	6	123	10	133	36	4	40	159	14	173
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture: NIL										
IV Livestock Production and Management: NIL										
V Home Science/Women empowerment: NIL										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss	1	0	23	23	0	6	6	0	29	29

in processing										
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	1	0	22	22	0	3	3	0	25	25
Value addition	1	0	20	20	0	27	27	0	47	47
Income generation activities for empowerment of rural Women	3	0	62	62	0	21	21	0	83	83
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	1	0	43	43	0	11	11	0	54	54
Women and child care	3	0	53	53	0	32	32	0	85	85
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	2	44	2	46	7	0	7	51	2	53
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	3	54	0	54	21	0	21	75	0	75
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	20	3	23	4	1	5	24	4	28
VII Plant Protection										
Integrated Pest Management	9	177	12	189	56	7	63	233	19	252
Integrated Disease Management	8	184	22	206	46	6	52	230	28	258
Bio-control of pests and diseases	2	39	5	44	13	2	15	52	7	59

Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries										
Integrated fish farming	2	45	2	47	14	0	14	59	2	61
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	4	97	11	108	19	0	19	116	11	127
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	2	57	0	57	17	0	17	74	0	74
IX Production of Inputs at site: NIL										
X Capacity Building and Group Dynamics: NIL										
XI Agro-forestry: NIL										
TOTAL	62	1094	320	1414	306	133	439	1400	453	1853
(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	2	45	0	45	13	0	13	58	0	58
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	8	12	20	2	8	10	10	20	30
Integrated Farming	1	14	0	14	9	0	9	23	0	23
Planting material	-	-	-	-	-	-	-	-	-	-

production										
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	17	3	20	3	4	7	20	7	27
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	1	8	5	13	3	4	7	11	9	20
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling	-	-	-	-	-	-	-	-	-	-

rearing										
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	12	0	12	9	0	9	21	0	21
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	7	104	20	124	39	16	55	143	36	179
(C) Extension Personnel										
Productivity enhancement in field crops	1	21	0	21	2	0	2	23	0	23
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	1	23	6	29	3	4	7	26	10	36
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	1	0	16	16	0	10	10	0	26	26
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and	-	-	-	-	-	-	-	-	-	-

nutrient efficient diet designing										
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	72	1242	362	1604	350	163	513	1592	525	2117

D. Vocational training programmes for Rural Youth:

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
	07/01/2009	Vermi composting		1	23	2	25	-	-	-	-
	26/02/2009	Grading & packaging		1	23	0	23	-	-	-	-
	14/05/2009	Preparation of bakery products		1	0	21	21	-	-	-	-

E. Sponsored Training Programmes

Sl.No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/R/EF)	No. of courses	No. of Participants									Spon. Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								M	F	T	M	F	T	M	F	T		
1	18/02/2009	Organic Farming	Crop Prod.	Organic Farming	1	EF	6	46	0	46	0	0	0	46	0	46	DAO	-
2	24/02/2009	Pulse production Technology	Crop Prod.	ICM	1	PF	2	49	0	49	0	0	0	49	0	49	DAO	-
3	05/03/2009	Training on spices - Ranavav	Horticulture	IPM	1	PF	2	125	0	125	0	0	0	125	0	125	Dept. of Horticulture DAO	-
4	20-21/2/09	Medicinal plants	Horticulture	Production and management technology	2	RY & PF	6	52	0	52	0	0	0	52	0	52	NMPB & JAU	-
5	29/07/2009	Fisheries	Fisheries	Integrated Fish Farming	1	RY	1	14	11	25	0	0	0	14	11	25	Dept. of Fisheries PBR	-
6	28/02/2009	Mahila Shibir on Bakery products	Home Sci.	Income generation activities for empowerment of rural Women	1	RY	1	0	45	45	0	0	0	0	45	45	DRDA	-
7	03/07/2009	Mahila Shibir - Visavada on Embroidery	Home Sci.	Income generation activities for empowerment of rural Women	1	RY	1	0	41	41	0	0	0	0	41	41	DRDA	-
8	12-13/12/08	Cotton Production Technology	Crop Prod.	ICM	2	EF	2	42	0	42	0	0	0	42	0	42	DAO	-
Total							21	328	97	425	0	0	0	328	97	425		-

F. Training Programmes & Demonstrations conducted under RKVY

Sr. No.	Month	Training				Demonstrations of farm implements	
		On-Camp.	No. of Parti.	Off-Camp.	No. of Parti.	No.	No. of Parti.
1.	Nov. 08	-	-	2	82	-	-
2.	Dec. 08	-	-	2	86	2	49
3.	Jan. 09	-	-	1	42	1	38
4.	Feb. 09	2	99	1	20	1	36
5.	March 09	-	-	3	101	-	-
6.	April 09	1	29	1	26	1	32
7.	May 09	-	-	2	60	2	85
8.	June 09	-	-	3	86	-	-
9.	July-09	1	18	-	-	-	-
	Total	4	146	15	503	7	240

3.4 Extension Programmes (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				M	F	T	M	F	T	M	F	T	M	F	T
1.	Field Day	Gram 9/12/08	1	21	-	21	3	-	3	-	-	-	24	-	24
2.	Field Day	Wheat 9/1/09	1	21	-	21	4	-	4	-	-	-	25	-	25
3.	Field day	Cumin 12/2/09	1	18	-	18	3	-	3	-	-	-	21	-	21
4.	Field day	Cotton 26/3/09	1	16	-	16	5	-	5	-	-	-	21	-	21
5.	Field day	Groundnut 20/8/09	1	17	-	17	6	-	6	-	-	-	23	-	23
6.	Field day	Groundnut 14/9/09	1	14	-	14	5	-	5	-	-	-	19	-	19
	Total	-	6	107	0	107	26	0	26	-	-	-	133	0	133
7.	Kisan Mela	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Kisan Ghosthi	-	22	182	80	262	52	13	65	-	-	-	234	93	327
9.	Exhibition	-	3	-	-	-	-	-	-	-	-	-	-	-	-
10.	Film Show	-	2	19	2		8	1	9				27	3	30
11.	Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.	Farmers Seminar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.	Workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.	Group meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15.	Lectures delivered as resource persons	-	9	433	200	633	341	49	351	-	-	-	774	249	1023
16.	Newspaper coverage	-	9	-	-	-	-	-	-	-	-	-	-	-	-
17.	Radio talks	-	1	-	-	-	-	-	-	-	-	-	-	-	-
18.	TV talks	-	10	-	-	-	-	-	-	-	-	-	-	-	-
19.	Popular articles	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20.	Extension Literature	-	36	1522	523	2045	420	198	618				1942	721	2663
21.	Advisory Services	-	442	283	53	336	88	18	106				371	71	442
22.	Scientific visit to farmers field	-	208	105	52	157	36	15	51				141	67	208
23.	Farmers visit to KVK	-	424	234	87	321	79	24	103				313	111	424
24.	Diagnostic visits	-	208	105	52	157	36	15	51				141	67	208
25.	Exposure visits	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26.	Ex-trainees	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Sammelan														
27.	Soil health Camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.	Animal Health Camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30.	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.	Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32.	Self Help Group Conveners meetings	-	1	0	14	14	0	1	1				0	15	15
33.	Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.	Celebration of important days (specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grand Total			1630	3082	1113	4174	1152	369	1482			4234	1482	5716

Celebration of "Technology Week" on Groundnut during 22-26 Sept. 2009

Date	No. of Participants			Villages	Chief guest present
	Male	Female	Total		
22-09-09	66	41	107	Advana, Bagvadar, Modhwada	Dr. R. L. Savaliya, DEE, JAU, JND
23-09-09	40	23	63	Visawada, Tukda, Vadala	Shri Jagdish Trivedi, Director, DRDA, Porbandar
24-09-09	30	-	30	Extension Functionaries of the district	Shri M. J. Vankar, JDA, Junagadh
25-09-09	71	-	71	Bordi, Bileshwar, Hanumangadh, Boricha	Shri Sangambhai Mori, Sarpanch, Bordi
26-09-09	45	-	45	Ishwariya, Khageshri, Kanodrana, Khistri	Dr. I. U. Dhruj, ADR, JAU, Junagadh
Total	252	64	316		

3.5 Production and supply of Technological products:

SEED MATERIALS

Sr. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
OILSEEDS	Groundnut	GG-20 & 14	97.87	399407	-

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	OILSEEDS	97.87	399407	-
	TOTAL			

PLANTING MATERIALS: NIL

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					

FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

BIO PRODUCTS: NIL

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIOFERTILIZERS						
BIO PESTICIDES						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK: NIL

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
	Cattle					
	SHEEP AND GOAT					
	POULTRY					
	FISHERIES					
	Others (Specify)					

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	TOTAL					

3.6. Literature Developed/Published

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

(B) Literature developed/published

Type of Publication	Title	Author	No.
Extension	Jaivik khatar ane teni upayogita	D.M. Pathak, P. J Gohil, R. B. Vadher	1000

literature - Leaflet	<i>KVK- Information card</i>		5000
	sagarbha stri mate posakaahar	Mrs. D. S. Thaker, D.M. Pathak	1000
	Badkoma rasikaran	Mrs. D.S. Thaker, D.M. Pathak	1000
	Mata nu doodh sherstha bal aahar	Mrs.D. S. Thaker, D.M. Pathak	1000
	<i>Falo nu parirakshan</i>	D. S. Thakar H. R. Vadar , D.M. Pathak	1000
	Vividh bakery item banavavy	Mrs. D. S. Thaker, D.M. Pathak	1000

(C) Details of Electronic Media Produced: NIL

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

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

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

Krishi Vigyan Kendra, JAU, Khapat-Porbandar has published a "KVK information card" (copy enclosed) in local language having mobile numbers of all the SMS with discipline. The Impact of the card is very good, it has made easy for the farmers to get solution of their problems by concerned SMS on mobile phone at any time.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Chilly, Brinjal	Dusting of Ash	Control of viral disease
2	Groundnut	Neem leaves used as covering material in storage	Control of storage pest
3	Castor, Groundnut	Buttermilk Spray	Repel the pest and animals
4	Castor, Groundnut	Application of rotted Bajra flour or Cow Urine	Suppress pest and disease
5	Control of aphids in Lucerne	Farmers place freshly cut branches of Akada (<i>Calotripis gigantea</i>) in irrigation channels to control aphid infestation in Lucerne (<i>Medicago sativa</i>). Akada with white and violet flowers is commonly found in uncultivated lands and it's latex irritates skin lands and it's	To control aphid infestation
6	Control of pests in Cotton	(i) Mechanical control measures include cotton seed treatment with cow dung resulted in delineating of the seed (fibre free seed), followed by identification and removal of pink boll worm infested seeds and hand collection, destruction of larvae and infested plant parts leads to reduction in insect pest population.	to Control pest complex in cotton

3.10 Indicate the specific training need analysis tools/methodology followed for

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

3.11 Field activities

- i. Number of villages adopted: 15 villages (5 from each Taluka)
- ii. No. of farm families selected: 75 families (5 from each village)
- iii. No. of survey/PRA conducted: 15

3.12. Activities of Soil and Water Testing Laboratory:

Status of establishment of Lab :

1. Year of establishment : **Yet to be established**
 2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples				
Petiole Samples				
Total				

4.0 IMPACT

- 4.1. Impact of KVK activities (Not to be restricted for reporting period): **Awaited**

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

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

- 4.2. Cases of large scale adoption
(Please furnish detailed information for each case)
 4.3. Details of impact analysis of KVK activities carried out during the reporting period

5.0 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of organizations	Nature of linkages
1	State department of Agriculture	Most of organizations are members of Scientific Advisory Committee of this KVK and have linkage with different mandatory activities conducting training programmes and demonstration on implements, Khedut Shibir, Kishan Gosthy, Field Day and Vocational Trainings, Sponsored trainings, contribution received for infrastructural development etc.
	District Agriculture Officer	
	Dy. Director of Agriculture (Extension)	
	Dy. Director of Horticulture	
	Dy. Director of Animal husbandry	
	Asstt. Director of Fisheries	
2	Asstt. Conservator of Forest	
3	Taluka purchase and sales Union (Porbandar, Kutiyana, Ranavav)	
4	State bank of Saurashtra	
5	DRDA, Porbandar	
6	Non Government organizations	
	SAHELI trust, Bagvadar	
	SAVA, Porbandar	
	WASMO, Porbandar	
	MEGHAVI, Porbandar	
7	Doordarshan Kendra	Dissemination of activities
8	All India Radio	

5.2 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.)
RKVY	29-09-2008	Central Govt.	6152700
NREGA	2-02-2009	DRDA	250000

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district **Yes**

S. No.	Programme	Nature of linkage	Remarks
1	ATMA Governing body	Member in Governing board	
2	Management Committee	Member in Management Committee	Also have collaborative extension programmes

5.4 Give details of programmes implemented under National Horticultural Mission: NIL

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board: NIL

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Oilseeds									
Groundnut	16/6/08 to 19/6/08 & 6/7/08	17/10/08 to 29/10/08	5	GG-20	Breeder & Mega	47.47	30350	221817	
			7	GG-14	Breeder	50.40	43760	177488	

6.3 Performance of production Units: NIL

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

6.4 Performance of instructional farm (livestock and fisheries production): NIL

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

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6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
30-05-09	Soil and Water conservation practices	PF	1	24	-	24	8	-	8
3-10-08	Micro irrigation in vegetable crops	PF	1	28	-	28	5	-	5

NB: Rain water harvesting structures with micro irrigation system is demonstrated against most of the trainees participated in on campus trainings of this KVK.

6.5 Utilization of hostel facilities: Furniture is yet to be procured

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute			
With KVK	State Bank of India	Porbandar	10250767705

7.2 Utilization of funds under FLD on Oilseed (*Rs. In Lakhs*): *NIL*

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008-09	Rabi 2008-09	Kharif 2008-09	Rabi 2008-09	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of funds under FLD on Pulses (*Rs. In Lakhs*): *NIL*

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008-09	Rabi 2008-09	Kharif 2008-09	Rabi 2008-09	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

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

Sl. No.	Items	Amount (Rs.)		Balance	Remarks
		Sanctioned	Utilized		
1.	Grant of input	50,000	1265	48,735	Funds received in Jan. 2009 so it is unspent
2.	Funds for Krishi Mela/ supply of printing materials,	25,000		25,000	

	reports etc.			
3.	Funds for POL / TA / Maintenance / hire of vehicle			
4.	Farm Implements	1,00,000	90,000	10,000
	Total	1,75,000	91,265	83,735

7.5 Utilization of KVK funds during the year 2007-08 and 2008-09 (upto Sep. 2009) (year-wise separately) (current year and previous year)

Previous year (1st April, 2008 to 31st March 2009)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	3600000	3600000	2716480
2	Traveling allowances	100000	100000	116134
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	150000	150000	149592
B	POL, repair of vehicles, tractor and equipments	90000	90000	94227
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	70000	70000	14240
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	80000	80000	69947
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	110000	110000	109809
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	60000	60000	160446
G	Training of extension functionaries	40000	40000	2391
H	Maintenance of buildings	20000	20000	19970
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	
J	Library	-	-	
TOTAL (A)		620000	620000	620704
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	420000	420000	416784
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		420000	420000	416784
C. REVOLVING FUND		*640977	640977	561139
GRAND TOTAL (A+B+C)		5380977	5380977	4431241

Current year (Up to Sep. 2009)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	3500000	3500000	826936
2	Traveling allowances	100000	100000	15176
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	175000	175000	96355
B	POL, repair of vehicles, tractor and equipments	100000	100000	98708
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	85000	85000	4799

D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	90000	90000	18071
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	105000	105000	44528
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	70000	70000	117547
G	Training of extension functionaries	50000	50000	17960
H	Maintenance of buildings	25000	25000	3121
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	
J	Library	-	-	
TOTAL (A)		700000	700000	401189
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	85000	85000	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		85000	85000	-
C. REVOLVING FUND		*529679	529679	171525
GRAND TOTAL (A+B+C)		4814697	4814697	1414816

* Grant available for particular year.

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2006 to March 2007	100000	21744	27175	94599
April 2007 to March 2008	94599	328570	351720	71449
April 2008 to March 2009	71449	569528	561139	79838
April 2009 to Sept. 2009	79838	449841	171525	358154

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

8.1 Constraints

(a) Administrative: Nil

(b) Financial

1. Infrastructure:

At present, there is no any furniture for Trainee's hostel is available with the KVK. As the construction work of building is completed.

2. Instrument/Equipment:

For soil testing laboratory grant for soil and water testing Instrument/Equipment is required to be sanction in this year.

3. FLD Grant

The procedure for conducting FLDs on cotton, oilseeds and pulses has to be started well before onset of monsoon i. e. in the month of May and we have to procure the inputs at that time. the grant for the same is neither released nor the approval for FLDs be provided. This may kindly be released timely; the inputs can be purchased and distributed well in time to conduct FLDs properly.

(c) Technical: Nil